

# Force-induced desorption of a linear polymer chain adsorbed on an attractive surface

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## Abstract

We consider a model of self-avoiding walk on a lattice with on-site repulsion and an attraction for every vertex of the walk visited on the surface to study force-induced desorption of a linear polymer chain adsorbed on an attractive surface and use the exact enumeration technique for analyzing how the critical force for desorption  $f_c(T)$  depends on the temperature. The curve  $f_c(T)$  gives the boundary separating the adsorbed phase from the desorbed phase. Our results show that in two dimensions where surface is a line the force  $f_c(T)$  increases monotonically as temperature is lowered and becomes almost constant at very low temperatures. In case of three-dimensions we, however, find re-entrance, i. e.  $f_c(T)$  goes through a maximum as temperature is lowered. The behaviour of the polymer chain at different values of temperature and force is examined by calculating the probability distribution of the height from the surface of the vertex at which external force is applied.

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When a long flexible polymer chain interacts with an impenetrable surface its conformational properties are strongly modified in comparison with its bulk properties [1, 2]. This is due to a subtle competition between the lowering of internal energy near an attractive surface and the loss of entropy due to constraints imposed by the impenetrable surface. For a strongly attractive surface, the polymer chain sticks to the surface, and for weak attraction it prefers to stay away from the surface. Thus there is a transition from the state when chain is mostly attached to the surface (adsorbed) to the state of detachment (desorbed) when the temperature is increased. The transition between these two states is marked by a transition temperature  $T_a$  with the adsorbed phase for  $T < T_a$  and the desorbed phase for  $T > T_a$ .

A model of self avoiding-walk on a lattice with on-site repulsion and attraction energy for every vertex of the walk visited on the surface provides an adequate model for understanding the adsorption-desorption transition [3, 4, 5]. We extend this model of self-avoiding walk to study the force-induced desorption of a linear polymer chain adsorbed on an attractive surface and calculate the critical force  $f_c(T)$  for desorption as a function of temperature. Response of a polymeric chain to externally applied force can be measured experimentally by using techniques like optical or magnetic tweezers [6] and atomic force microscope [7].

We consider self-avoiding walks (*SAWs*) that start from a point on an impenetrable surface and experience a force  $f$  in a direction perpendicular to the surface at the other end. The applied force, because of its direction, favours desorption and one expects a critical force,  $f_c(T)$ , for desorption. At a given  $T$  when the applied force  $f$  is less than  $f_c(T)$  the polymer will be adsorbed while for  $f > f_c(T)$  the polymer will be desorbed. The curve  $f_c(T)$ , therefore, gives the boundary that separates the desorbed phase from the adsorbed phase in the  $(f, T)$  plane.

Let  $z = 0$  represents the surface and walks start from a point (origin) on the surface. In case of two dimensions ( $2-d$ ) the surface is a line whereas in case of three dimensions ( $3-d$ ) the surface is a plane. Since the surface is impenetrable, walks are restricted to half of the space ( $z \geq 0$ ) only. We enumerated all *SAWs* upto a certain length on a square lattice in  $2-d$  and on a cubic lattice in  $3-d$ . Let  $C_N(N_s, h)$  be the number of *SAWs* of  $N$  vertex (a vertex of the walk represents a monomer of the polymer and a step of the walk, the chemical bond connecting the neighbouring monomers) having  $N_s$  number of vertices on the surface,  $N - N_s$  vertices away from the surface and  $h$  the height of the end vertex of the walk from the surface. We enumerated and analyzed the series  $C_N(N_s, h)$  upto  $N \leq 31$  in  $2-d$  and

$N \leq 20$  in 3- $d$ . The values of  $C_N(N_s, h)$  found from the datas of exact enumerations for a given  $N$  with all possible values of  $N_s$  and  $h$  are given in table-2d.ps and table-3d.ps (see source file draft.tgz).

The partition function is found from the relation

$$Z_N(\omega, u) = \sum_{N_s, h} C_N(N_s, h) \omega^{N_s} u^h \quad (1)$$

where  $\omega = e^{-\epsilon_s/k_B T}$  and  $u = e^{f/k_B T}$ . Here  $\epsilon_s$  is the energy of attraction ( $\epsilon_s < 0$ ) of a vertex (or monomer) with the surface and  $f$  is the force acting at the last vertex of the walk in a direction perpendicular to the surface. In what follows, we set the Boltzmann constant  $k_B = 1$  and  $\epsilon_s = -1$  and express the length in unit of the lattice parameter or the length of a step of the walk.

For fixed  $f$  we locate the adsorption-desorption transition temperature from the maximum of  $\frac{\partial \langle N_s \rangle}{\partial (\log \omega)} (= \langle N_s^2 \rangle - \langle N_s \rangle^2)$  where  $\langle N_s \rangle = \frac{1}{Z_N(\omega, u)} \sum_{N_s, h} N_s C_N(N_s, h) \omega^{N_s} u^h$  (see Eq. (8)). In Fig. (1) we plot the values of  $\frac{\partial \langle N_s \rangle}{\partial (\log \omega)}$  as a function of  $T (= \frac{1}{\log \omega})$  for some values of  $f$ . The results given in this figure correspond to walks (a) of 31 vertices in 2- $d$  and (b) of 20 vertices in 3- $d$ . The curve  $\frac{\partial \langle N_s \rangle}{\partial (\log \omega)}$  vs  $T$  of 2- $d$  is found to have only one maximum for all values of  $f$  for which the adsorption-desorption transition occurs on varying the temperature, but in 3- $d$  the curve for certain values of  $f (\geq 1)$  is found to have two maxima. The occurrence of two maxima in a  $\frac{\partial \langle N_s \rangle}{\partial (\log \omega)}$  curve indicates that the adsorption-desorption transition takes place at two different temperatures for the same value of  $f$ . In such a case the adsorbed phase is bounded by the desorbed phase from both low and high temperature sides. This is the case of a re-entrance.

It is possible to obtain better estimates of phase boundaries by extrapolating for large  $N$ . The reduced free energy per monomer defined as

$$G(\omega, u) = \lim_{N \rightarrow \infty} \frac{1}{N} \log Z_N(\omega, u) \quad (2)$$

can be estimated from the partition functions found from the data of exact enumerations for finite  $N$  by extrapolating to large  $N$ . For  $N \rightarrow \infty$  one can, in general, write [2],

$$Z_N(\omega, u) \sim \mu(\omega, u)^N N^{\gamma-1} \quad (3)$$

where  $\mu(\omega, u)$  is the effective coordination number and  $\gamma$  is the universal configurational exponents for walks with one end attached to the surface. The value of  $\mu(\omega, u)$  can be

estimated using ratio method [8] with associated Neville table or any other method such as Padè analysis [9] or differential approximants [10]. The ratio method has recently been used to predict the phase diagram of a long flexible polymer chain immersed in a poor solvent near an attracting surface [4, 5].

From Eqs. (2) and (3) we can write

$$\log \mu(\omega, u) = \lim_{N \rightarrow \infty} \frac{1}{N} \log Z_N(\omega, u) = G(\omega, u) \quad (4)$$

$Z_N(\omega, u)$  is calculated from the data of  $C_N(N_s, h)$  using Eq. (1) for given values of  $\omega$  and  $u$  ( or equivalently,  $T$  and  $f$ ). From this we construct linear and quadratic extrapolants of the ratio of  $Z_N(\omega, u)$  for adjacent values of  $N$  as well as the alternate one. The values of  $\mu(\omega, u)$  thus obtained for some values of force and temperature are shown in tables *I* and *II* for 2- $d$  case and in table *III* and *IV* for 3- $d$  case. As shown in Figs (2) and (3) and from the tables(I-IV), the results for alternate  $N$  give better convergence. We used this value of  $G(\omega, u)$  to locate the transition temperature for given  $f$  from the maxima of  $\frac{\partial^2 G}{\partial (\log \omega)^2} (= \frac{\partial \langle N_s \rangle}{\partial (\log \omega)})$ .

The phase diagram thus obtained is shown in Fig. (4). We also plot in this figure the results found from the partition function of a chain of finite length;  $N = 31$  in 2- $d$  and  $N = 20$  in 3- $d$ . Except for small difference seen at high temperatures the agreement between these two values is good. We note that in case of 2- $d$  the critical force for desorption increases monotonously as temperature is lowered and becomes constant at very low temperatures,  $T \leq 0.29$ . In case of 3- $d$  we find, as mentioned above, re-entrance i. e. the critical force goes through a maximum as  $T$  is lowered and the adsorbed phase for  $f \geq 1$  is bounded from both low and high temperature sides by the desorbed phase. The maximum of  $f_c(T)$  occurs at  $T \sim 0.77$  and its value is found to be 1.5, (see Fig. 4(b)). In both 2- $d$  and 3- $d$  cases the value of  $f_c$  at  $T = 0$  is 1. The re-entrance in phase diagram has also been reported in 3- $d$  in directed walk models [11, 12, 13].

The nature of the phase boundary at low temperatures as shown in Fig. 4 is perhaps due to the specific configuration acquired by the part of chain that gets detached from the surface under the influence of the external force. As shown below, at low temperatures when the applied force is close to its critical value the detached part of the chain becomes a rod oriented along a particular direction. There is, therefore, no entropic contribution to the free energy from this part of the chain. On the other hand, at high temperatures the

part of the chain that gets detached under the influence of the external force remains as a self-avoiding walk in the half space with all lengths thermal fluctuations unless the force becomes sufficiently large compared to the critical force.

To see this we calculate the probability distribution of  $h$  defined as

$$P(h) = \frac{u^h}{Z_N(\omega, u)} \sum_{N_s} C(N_s, h) \omega^{N_s} \quad (5)$$

for different values of  $f$  and  $T$ . The results are shown in Fig. 5 for 2- $d$  and in Fig. 6 for 3- $d$  at two temperatures.

These figures show the difference in the behaviour of a polymer in the low and high temperature regions of the phase diagram. At high temperatures the thermal fluctuations are present in both the adsorbed and desorbed parts of the chain. As a consequence, even at  $f = 0$  when the chain is fully adsorbed,  $P(h)$  has a large width and its value at  $h = 0$  is less than 0.5. It is only when  $f$  is sufficiently large than  $f_c$ , the polymer chain gets stretched under the influence of force, as the force suppresses the thermal fluctuations. On the other hand, at low temperatures ( $T \sim 0.1$ ) in both, 2- $d$  and 3- $d$ , the polymer chain seems to fully lie on the surface with  $h \sim 0$  at  $f < f_c$ . It is only when  $f$  is close to  $f_c$ ,  $P(h)$  gets broadened indicating that a part of the chain is pulled away from the surface. For  $f > f_c$  the polymer chain seems to acquire shape of a rod in the direction perpendicular to the surface. At  $f \sim f_c$  all values of  $h$  appears equally probable indicating large fluctuations in the segment of the polymer that lies on the surface and the other segment that is away from the surface under the influence of the force.

We calculated the entropy per monomer for  $f = 0$  using the relation

$$s = \frac{\partial(TG(\omega, u = 1))}{\partial T} \quad (6)$$

and found (see Fig. (7)) that in 2- $d$  the entropy goes to zero for  $T \leq 0.27$  indicating that the chain is fully adsorbed and acquires a shape of one dimensional object. This may, however, not be strictly true in a long chain ( $N \rightarrow \infty$ ) due to presence of low energy long wavelength thermal fluctuations which are suppressed in a short chain. In 3- $d$  entropy becomes constant equal to  $s_a = \ln \mu = 0.97$ , ( $\mu$  being the connectivity of a square lattice) for  $T \leq 0.40$ . This shows that for  $T \leq 0.4$  the polymer chain is fully adsorbed on the surface and acquires a configuration of a chain in two-dimensions. It therefore seems that below certain temperature the polymer chain is fully adsorbed and confined to the surface.

From the above results one concludes that when the value of the external force  $f$  is close to the critical value  $f_c$  a surface adsorbed polymer chain at very low temperatures ( $T \sim 0$ ) has two parts; one is fully adsorbed on the surface or zipped with the surface and the other is in a shape of rod perpendicular to the surface. Thus near  $T \rightarrow 0$  we can write the free energy as [11, 12]

$$F = -N_s - TN_s s_a - f(N - N_s) \quad (7)$$

where  $N - N_s$  represents the length  $h$  perpendicular to the surface;  $s_a$  is the entropy associated with the adsorbed state. Minimization of Eq. (7) with respect to  $N_s$  gives  $f_c(T) = 1 + Ts_a$  and  $\frac{df_c}{dT} = s_a$ . The value of  $\frac{df_c}{dT}$  at  $T \rightarrow 0$  is found from Fig. 4(b) to be  $\sim 0.93$  which is in good agreement with the value  $s_a = 0.97$ . Since in case of 2- $d$ ,  $s_a$  is zero as the surface is a line we get  $f_c = 1$  and  $\frac{df_c}{dT} = 0$  in agreement with the result shown in Fig. 4(a).

The values of  $\frac{\langle N_s \rangle}{N}$  and  $\frac{\langle h \rangle}{N}$  calculated from relations

$$\frac{\langle N_s \rangle}{N} = \frac{1}{Z_N(\omega, u)} \frac{1}{N} \sum_{N_s, h} N_s C_N(N_s, h) \omega^{N_s} u^h \quad (8)$$

and

$$\frac{\langle h \rangle}{N} = \frac{1}{Z_N(\omega, u)} \frac{1}{N} \sum_{N_s, h} h C_N(N_s, h) \omega^{N_s} u^h \quad (9)$$

and plotted in Fig. 8 show a sharp jump; a characteristic of a first-order transition. The result that the force-induced adsorption-desorption is first-order has also been found in the directed walk model by Orlandini et al [13].

In this paper we have used the lattice model of self-avoiding walk to calculate the values of critical force  $f_c(T)$  for desorption of a linear polymer chain adsorbed on an attractive surface at different temperatures. The phase boundary that separates the adsorbed phase from the desorbed phase shows re-entrance in case of 3- $d$ . It is found that for  $f \geq 1$  the adsorbed phase is bounded from both the low and high temperature sides by the desorbed phase. In case of 2- $d$  we, however, find that the critical force  $f_c(T)$  attains a constant value for  $T \leq 0.29$  and does not change on lowering the temperature. These features of the phase diagram can be understood from the configurations the part of the polymer chain that gets detached from the surface under the influence of the force acquires at the low temperatures. We have calculated the probability distribution of the height from the surface of the end vertex at which external force is applied at different values of force and temperature and

found that for  $T \sim 0$  and  $f \sim f_c$  the polymer chain has two parts; one is fully adsorbed on the surface and the other is in a shape of a rod perpendicular to the surface.

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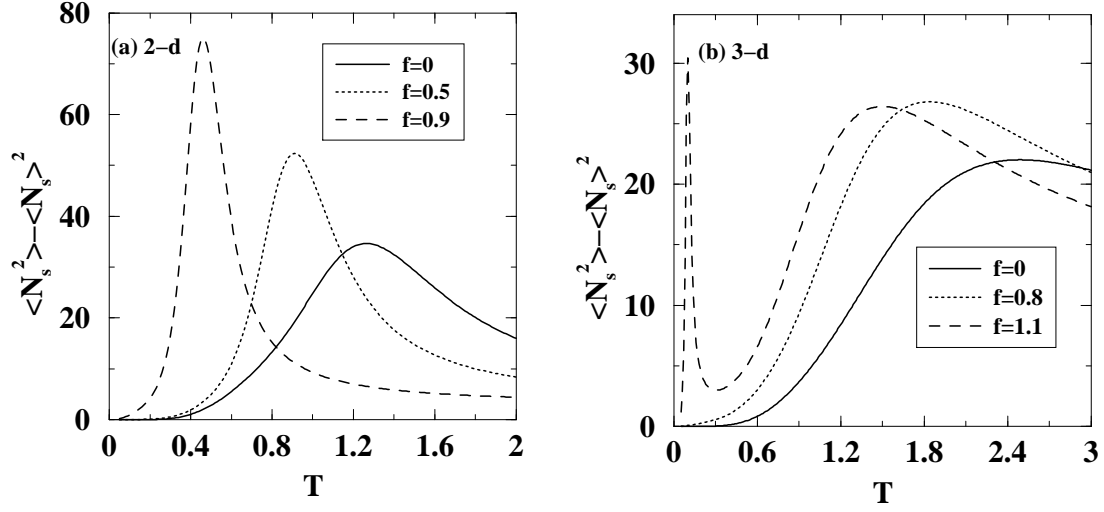


FIG. 1: The dependence of  $\frac{\partial \langle N_s \rangle}{\partial (\log \omega)} = \langle N_s^2 \rangle - \langle N_s \rangle^2$  on  $T$  for different forces is shown. Results are (a) for  $N = 31$  in 2- $d$  and (b) for  $N = 20$  in 3- $d$ . Note the existence of two peaks for  $f = 1.1$  in 3- $d$ .

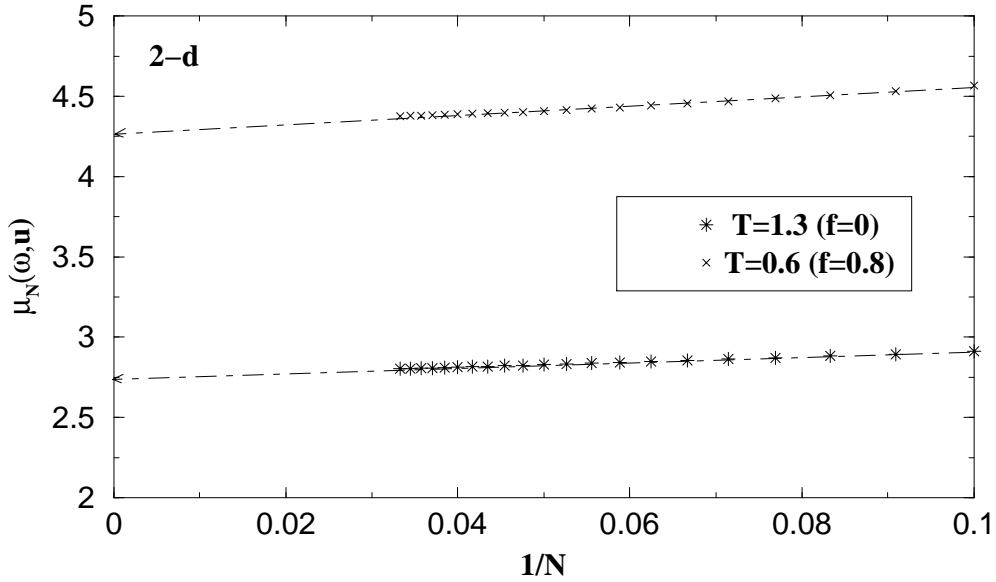


FIG. 2: The value of  $\mu_N(\omega, u)$  calculated from the relation  $\mu_N(\omega, u) = \sqrt{\frac{Z_N(\omega, u)}{Z_{N-2}(\omega, u)}}$  in 2- $d$  is plotted as a function of  $\frac{1}{N}$  at values of  $(f, T) = (0, 1.3)$  and  $(0.8, 0.6)$ . The extrapolated value of  $\mu_N(\omega, u)$  for  $\frac{1}{N} = 0$  has been used in Eq. (4) to calculate the reduced free energy per monomer.

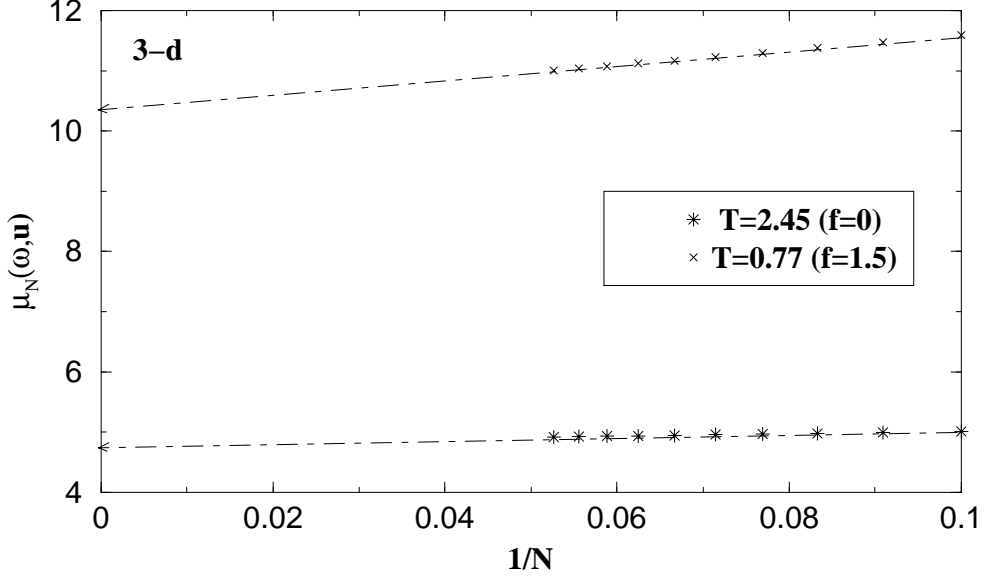


FIG. 3: Same as in Fig. (7) but in 3- $d$  and at values of  $(f, T) = (0, 2.45)$  and  $(1.5, 0.77)$ .

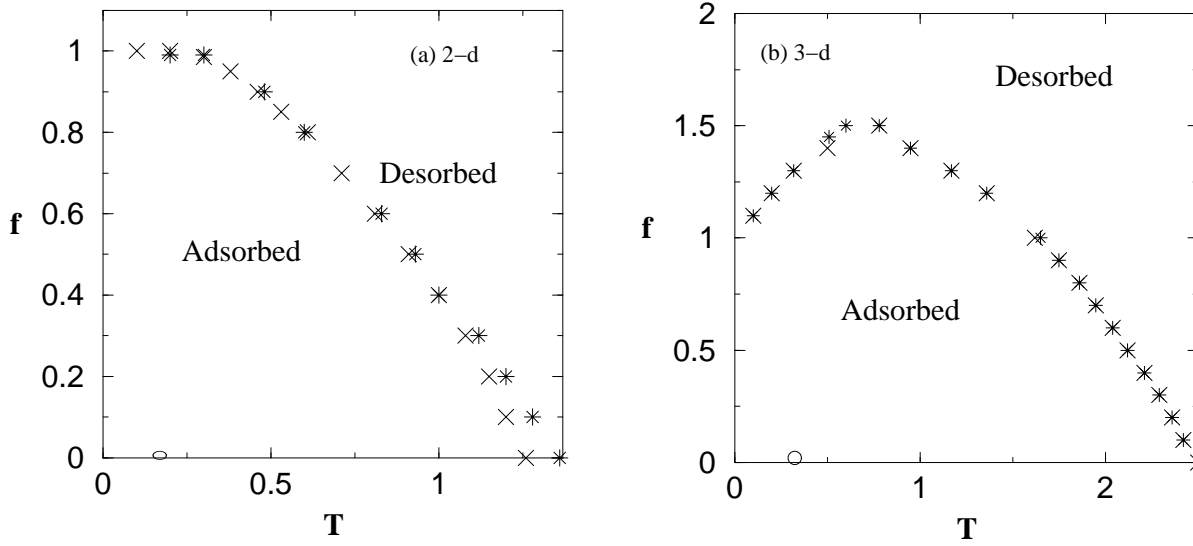


FIG. 4: The dependence of critical force  $f_c(T)$  on  $T$  in (a) two and (b) three -dimensions. The star corresponds to results obtained from extrapolated values of the reduced free energy and cross corresponds to  $N = 20$  (for 3- $d$ ) and  $N = 31$  (in 2- $d$ ) respectively. In 3- $d$  the re-entrance is observed for  $f \geq 1$  and in 2- $d$   $f_c(T)$  becomes constant equal to 1 for  $T \leq 0.29$ .

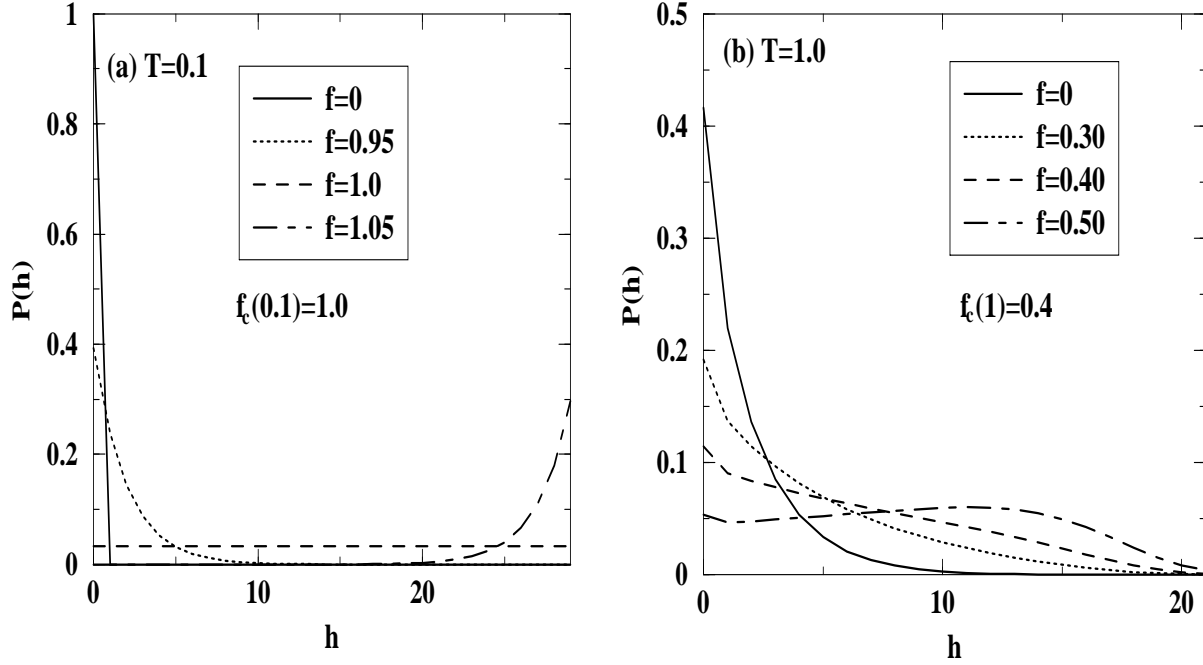


FIG. 5: The probability distribution curve for the height of the end monomer at which force is applied from the surface in 2- $d$  at  $T = 0.1$  (a) and  $T = 1.0$  (b). The results given in (a) are for  $N = 31$  and in (b) for  $N = 20$ .

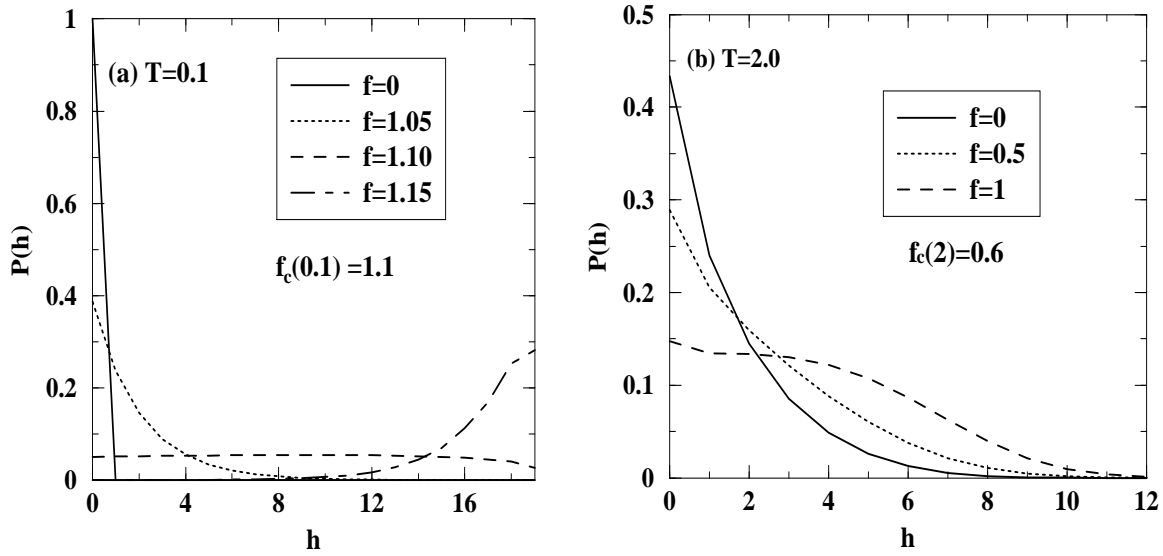


FIG. 6: The probability distribution curve for the height of the end monomer at which force is applied from the surface in 3- $d$  at  $T = 0.1$  (a) and  $T = 2.0$  (b). Other details are same as in Fig. 3.

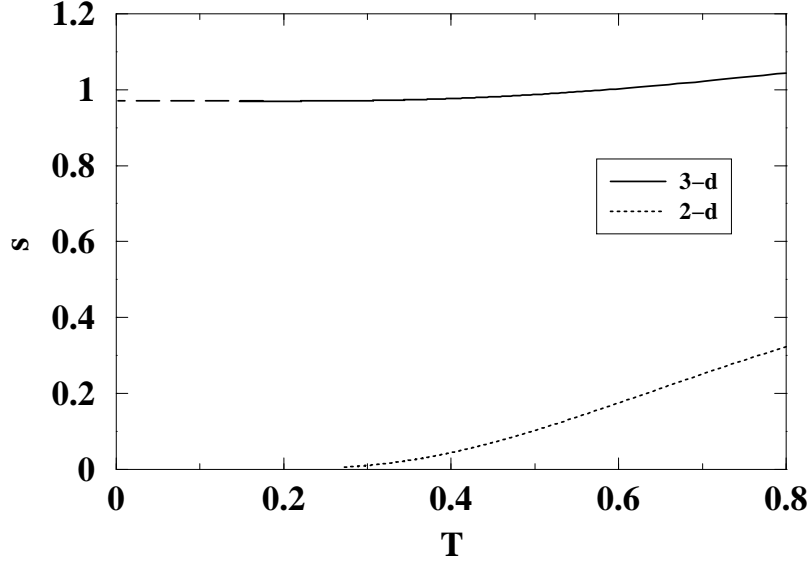


FIG. 7: The variation of entropy per monomer for  $f = 0$  in 2- $d$  (dotted line) and in 3- $d$  (full line). The  $s$  becomes zero for  $T \leq 0.27$  in 2- $d$  and becomes nearly constant ( $\sim 0.97$ ) in 3- $d$  for  $T \leq 0.4$ .

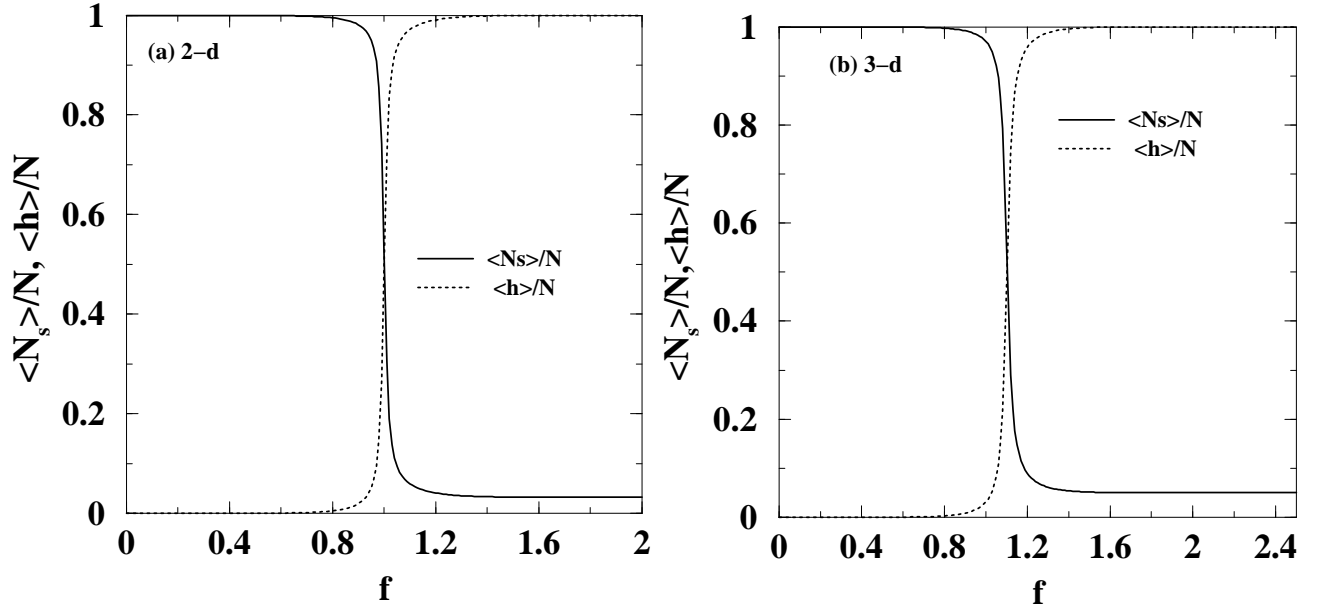


FIG. 8: The nature of variation of  $\frac{\langle N_s \rangle}{N}$  and  $\frac{\langle h \rangle}{N}$  has been shown with  $f$  at a fixed value of temperature ( $T = 0.1$ ) in (a) 2- $d$  and (b) 3- $d$ . The results given in (a) are for  $N = 31$  and in (b)  $N = 20$ .

TABLE I: Values of  $\mu_N(\omega, u)$

in 2- $d$  for  $f = 0$  and  $T = 1.3$

$N$	$\mu_N(\omega, u) = \sqrt{\frac{Z_N(\omega, u)}{Z_{N-2}(\omega, u)}}$	$\mu_N(\omega, u) = \frac{Z_N(\omega, u)}{Z_{N-1}(\omega, u)}$
16	2.85363	2.86096
17	2.84831	2.83571
18	2.84134	2.84697
19	2.83707	2.82721
20	2.83164	2.83607
21	2.82815	2.82026
22	2.82382	2.82739
23	2.82093	2.81449
24	2.81741	2.82034
25	2.81499	2.80966
26	2.81208	2.81451
27	2.81003	2.80556
28	2.80760	2.80965
29	2.80585	2.80206
30	2.80380	2.80554
31	2.80229	2.79905

TABLE II: Values of  $\mu_N(\omega, u)$ in 2- $d$  for  $f = 0.8$  and  $T = 0.6$ 

$N$	$\mu_N(\omega, u) = \sqrt{\frac{Z_N(\omega, u)}{Z_{N-2}(\omega, u)}}$	$\mu_N(\omega, u) = \frac{Z_N(\omega, u)}{Z_{N-1}(\omega, u)}$
16	5.88172	5.86876
17	5.85734	5.84595
18	5.83590	5.82587
19	5.81692	5.80798
20	5.79998	5.79198
21	5.78478	5.77758
22	5.77106	5.76454
23	5.75861	5.75269
24	5.74727	5.74186
25	5.73690	5.73194
26	5.72737	5.72281
27	5.71859	5.71438
28	5.71047	5.70657
29	5.70294	5.69932
30	5.69594	5.69257
31	5.68942	5.68627

TABLE III: Values of  $\mu_N(\omega, u)$

in 3- $d$  for  $f = 0$  and  $T = 2.45$

$N$	$\mu_N(\omega, u) = \sqrt{\frac{Z_N(\omega, u)}{Z_{N-2}(\omega, u)}}$	$\mu_N(\omega, u) = \frac{Z_N(\omega, u)}{Z_{N-1}(\omega, u)}$
10	5.02935	5.03992
11	5.01239	4.98502
12	4.99209	4.99918
13	4.97988	4.96066
14	4.96572	4.97078
15	4.95643	4.94212
16	4.94593	4.94974
17	4.93860	4.92747
18	4.93047	4.93346
19	4.92453	4.91561
20	4.91803	4.92046

TABLE IV: Values of  $\mu_N(\omega, u)$

in 3- $d$  for  $f = 0.77$  and  $T = 1.5$

$N$	$\mu_N(\omega, u) = \sqrt{\frac{Z_N(\omega, u)}{Z_{N-2}(\omega, u)}}$	$\mu_N(\omega, u) = \frac{Z_N(\omega, u)}{Z_{N-1}(\omega, u)}$
10	11.73428	11.662856
11	11.59258	11.52274
12	11.47432	11.42611
13	11.37927	11.33262
14	11.29805	11.26358
15	11.23038	11.19728
16	11.17161	11.14599
17	11.12143	11.09692
18	11.07728	11.05767
19	11.03893	11.02022
20	11.00485	10.98951

N=2			2	0	4.0	5	2	3.0
$N_s$	$h$	$C_N(N_s, h)$	2	1	8.0	6	1	3.0
1	1	1.0	2	2	16.0	7	0	3.0
2	0	2.0	2	3	12.0	N=8		
N=3			2	4	2.0	1	1	40.0
1	1	2.0	3	0	8.0	1	2	62.0
1	2	1.0	3	1	6.0	1	3	84.0
2	1	2.0	3	2	8.0	1	4	90.0
3	0	2.0	3	3	2.0	1	5	50.0
N=4			4	0	6.0	1	6	12.0
1	1	2.0	4	1	4.0	1	7	1.0
1	2	4.0	4	2	2.0	2	0	20.0
1	3	1.0	5	1	2.0	2	1	40.0
2	0	2.0	6	0	2.0	2	2	56.0
2	1	4.0	N=7			2	3	80.0
2	2	2.0	1	1	40.0	2	4	64.0
3	1	2.0	1	2	56.0	2	5	20.0
4	0	2.0	1	3	80.0	2	6	2.0
N=5			1	4	64.0	3	0	32.0
1	1	4.0	1	5	20.0	3	1	24.0
1	2	8.0	1	6	2.0	3	2	36.0
1	3	6.0	2	0	16.0	3	3	38.0
1	4	1.0	2	1	24.0	3	4	16.0
2	0	2.0	2	2	42.0	3	5	2.0
2	1	4.0	2	3	54.0	4	0	24.0
2	2	8.0	2	4	24.0	4	1	20.0
2	3	2.0	2	5	3.0	4	2	20.0
3	0	4.0	3	0	20.0	4	3	12.0
3	1	4.0	3	1	19.0	4	4	2.0
3	2	2.0	3	2	27.0	5	0	12.0
4	1	2.0	3	3	18.0	5	1	10.0
5	0	2.0	3	4	3.0	5	2	8.0
N=6			4	0	15.0	5	3	2.0
1	1	8.0	4	1	12.0	6	0	10.0
1	2	14.0	4	2	12.0	6	1	4.0
1	3	18.0	4	3	3.0	6	2	2.0
1	4	8.0	5	0	12.0	7	1	2.0
1	5	1.0	5	1	6.0	8	0	2.0



N=9			6	3	2.0	4	5	20.0
1	1	100.0	7	0	12.0	4	6	2.0
1	2	140.0	7	1	4.0	5	0	76.0
1	3	184.0	7	2	2.0	5	1	56.0
1	4	216.0	8	1	2.0	5	2	58.0
1	5	172.0	9	0	2.0	5	3	42.0
1	6	72.0	N=10			5	4	16.0
1	7	14.0	1	1	216.0	5	5	2.0
1	8	1.0	1	2	322.0	6	0	40.0
2	0	40.0	1	3	420.0	6	1	32.0
2	1	80.0	1	4	498.0	6	2	24.0
2	2	124.0	1	5	480.0	6	3	12.0
2	3	168.0	1	6	294.0	6	4	2.0
2	4	180.0	1	7	98.0	7	0	16.0
2	5	100.0	1	8	16.0	7	1	14.0
2	6	24.0	1	9	1.0	7	2	8.0
2	7	2.0	2	0	100.0	7	3	2.0
3	0	68.0	2	1	200.0	8	0	14.0
3	1	60.0	2	2	280.0	8	1	4.0
3	2	76.0	2	3	368.0	8	2	2.0
3	3	92.0	2	4	432.0	9	1	2.0
3	4	66.0	2	5	344.0	10	0	2.0
3	5	20.0	2	6	144.0	N=11		
3	6	2.0	2	7	28.0	1	1	548.0
4	0	50.0	2	8	2.0	1	2	746.0
4	1	38.0	3	0	160.0	1	3	974.0
4	2	48.0	3	1	126.0	1	4	1160.0
4	3	40.0	3	2	170.0	1	5	1212.0
4	4	16.0	3	3	208.0	1	6	948.0
4	5	2.0	3	4	196.0	1	7	464.0
5	0	30.0	3	5	102.0	1	8	128.0
5	1	26.0	3	6	24.0	1	9	18.0
5	2	22.0	3	7	2.0	1	10	1.0
5	3	12.0	4	0	140.0	2	0	216.0
5	4	2.0	4	1	96.0	2	1	432.0
6	0	14.0	4	2	110.0	2	2	644.0
6	1	12.0	4	3	108.0	2	3	840.0
6	2	8.0	4	4	68.0			

2	4	996.0	7	2	26.0	3	3	1106.0
2	5	960.0	7	3	12.0	3	4	1210.0
2	6	588.0	7	4	2.0	3	5	1064.0
2	7	196.0	8	0	18.0	3	6	612.0
2	8	32.0	8	1	16.0	3	7	198.0
2	9	2.0	8	2	8.0	3	8	32.0
3	0	352.0	8	3	2.0	3	9	2.0
3	1	316.0	9	0	16.0	4	0	744.0
3	2	390.0	9	1	4.0	4	1	534.0
3	3	474.0	9	2	2.0	4	2	594.0
3	4	500.0	10	1	2.0	4	3	654.0
3	5	364.0	11	0	2.0	4	4	598.0
3	6	146.0	N=12			4	5	388.0
3	7	28.0	1	1	1224.0	4	6	148.0
3	8	2.0	1	2	1778.0	4	7	28.0
4	0	290.0	1	3	2282.0	4	8	2.0
4	1	216.0	1	4	2738.0	5	0	472.0
4	2	254.0	1	5	2960.0	5	1	320.0
4	3	270.0	1	6	2662.0	5	2	344.0
4	4	216.0	1	7	1708.0	5	3	328.0
4	5	104.0	1	8	690.0	5	4	234.0
4	6	24.0	1	9	162.0	5	5	106.0
4	7	2.0	1	10	20.0	5	6	24.0
5	0	182.0	1	11	1.0	5	7	2.0
5	1	134.0	2	0	548.0	6	0	254.0
5	2	144.0	2	1	1096.0	6	1	184.0
5	3	122.0	2	2	1492.0	6	2	176.0
5	4	70.0	2	3	1948.0	6	3	136.0
5	5	20.0	2	4	2320.0	6	4	72.0
5	6	2.0	2	5	2424.0	6	5	20.0
6	0	96.0	2	6	1896.0	6	6	2.0
6	1	72.0	2	7	928.0	7	0	124.0
6	2	68.0	2	8	256.0	7	1	90.0
6	3	44.0	2	9	36.0	7	2	78.0
6	4	16.0	2	10	2.0	7	3	46.0
6	5	2.0	3	0	864.0	7	4	16.0
7	0	52.0	3	1	696.0	7	5	2.0
7	1	38.0	3	2	908.0			

8	0	66.0	2	11	2.0	6	7	2.0
8	1	44.0	3	0	1984.0	7	0	326.0
8	2	28.0	3	1	1778.0	7	1	236.0
8	3	12.0	3	2	2128.0	7	2	210.0
8	4	2.0	3	3	2606.0	7	3	150.0
9	0	20.0	3	4	2910.0	7	4	74.0
9	1	18.0	3	5	2810.0	7	5	20.0
9	2	8.0	3	6	2044.0	7	6	2.0
9	3	2.0	3	7	956.0	8	0	156.0
10	0	18.0	3	8	258.0	8	1	110.0
10	1	4.0	3	9	36.0	8	2	88.0
10	2	2.0	3	10	2.0	8	3	48.0
11	1	2.0	4	0	1648.0	8	4	16.0
12	0	2.0	4	1	1240.0	8	5	2.0
N=13			4	2	1414.0	9	0	82.0
1	1	3112.0	4	3	1578.0	9	1	50.0
1	2	4212.0	4	4	1550.0	9	2	30.0
1	3	5408.0	4	5	1206.0	9	3	12.0
1	4	6514.0	4	6	640.0	9	4	2.0
1	5	7190.0	4	7	200.0	10	0	22.0
1	6	6964.0	4	8	32.0	10	1	20.0
1	7	5344.0	4	9	2.0	10	2	8.0
1	8	2864.0	5	0	1088.0	10	3	2.0
1	9	980.0	5	1	800.0	11	0	20.0
1	10	200.0	5	2	836.0	11	1	4.0
1	11	22.0	5	3	836.0	11	2	2.0
1	12	1.0	5	4	688.0	12	1	2.0
2	0	1224.0	5	5	410.0	13	0	2.0
2	1	2448.0	5	6	150.0	N=14		
2	2	3556.0	5	7	28.0	1	1	7148.0
2	3	4564.0	5	8	2.0	1	2	10236.0
2	4	5476.0	6	0	596.0	1	3	12926.0
2	5	5920.0	6	1	436.0	1	4	15588.0
2	6	5324.0	6	2	442.0	1	5	17482.0
2	7	3416.0	6	3	384.0	1	6	17666.0
2	8	1380.0	6	4	252.0	1	7	15148.0
2	9	324.0	6	5	108.0	1	8	9946.0
2	10	40.0	6	6	24.0			

1	9	4536.0	4	8	260.0	9	1	132.0
1	10	1342.0	4	9	36.0	9	2	98.0
1	11	242.0	4	10	2.0	9	3	50.0
1	12	24.0	5	0	2784.0	9	4	16.0
1	13	1.0	5	1	1896.0	9	5	2.0
2	0	3112.0	5	2	2028.0	10	0	100.0
2	1	6224.0	5	3	2096.0	10	1	56.0
2	2	8424.0	5	4	1880.0	10	2	32.0
2	3	10816.0	5	5	1336.0	10	3	12.0
2	4	13028.0	5	6	666.0	10	4	2.0
2	5	14380.0	5	7	202.0	11	0	24.0
2	6	13928.0	5	8	32.0	11	1	22.0
2	7	10688.0	5	9	2.0	11	2	8.0
2	8	5728.0	6	0	1616.0	11	3	2.0
2	9	1960.0	6	1	1124.0	12	0	22.0
2	10	400.0	6	2	1104.0	12	1	4.0
2	11	44.0	6	3	1022.0	12	2	2.0
2	12	2.0	6	4	776.0	13	1	2.0
3	0	4896.0	6	5	432.0	14	0	2.0
3	1	4034.0	6	6	152.0	N=15		
3	2	5098.0	6	7	28.0	1	1	18228.0
3	3	6190.0	6	8	2.0	1	2	24622.0
3	4	7018.0	7	0	804.0	1	3	31190.0
3	5	7114.0	7	1	582.0	1	4	37536.0
3	6	5962.0	7	2	546.0	1	5	42560.0
3	7	3616.0	7	3	442.0	1	6	44266.0
3	8	1412.0	7	4	270.0	1	7	40638.0
3	9	326.0	7	5	110.0	1	8	30672.0
3	10	40.0	7	6	24.0	1	9	17380.0
3	11	2.0	7	7	2.0	1	10	6860.0
4	0	4256.0	8	0	420.0	1	11	1784.0
4	1	3102.0	8	1	296.0	1	12	288.0
4	2	3368.0	8	2	246.0	1	13	26.0
4	3	3816.0	8	3	164.0	1	14	1.0
4	4	3906.0	8	4	76.0	2	0	7148.0
4	5	3390.0	8	5	20.0	2	1	14296.0
4	6	2238.0	8	6	2.0	2	2	20472.0
4	7	988.0	9	0	192.0			

2	3	25852.0	5	2	4936.0	9	2	284.0
2	4	31176.0	5	3	5214.0	9	3	178.0
2	5	34964.0	5	4	4940.0	9	4	78.0
2	6	35332.0	5	5	3940.0	9	5	20.0
2	7	30296.0	5	6	2416.0	9	6	2.0
2	8	19892.0	5	7	1018.0	10	0	232.0
2	9	9072.0	5	8	262.0	10	1	156.0
2	10	2684.0	5	9	36.0	10	2	108.0
2	11	484.0	5	10	2.0	10	3	52.0
2	12	48.0	6	0	3762.0	10	4	16.0
2	13	2.0	6	1	2714.0	10	5	2.0
3	0	11484.0	6	2	2772.0	11	0	120.0
3	1	10334.0	6	3	2652.0	11	1	62.0
3	2	12170.0	6	4	2210.0	11	2	34.0
3	3	14808.0	6	5	1464.0	11	3	12.0
3	4	16978.0	6	6	692.0	11	4	2.0
3	5	17742.0	6	7	204.0	12	0	26.0
3	6	16150.0	6	8	32.0	12	1	24.0
3	7	11674.0	6	9	2.0	12	2	8.0
3	8	5988.0	7	0	2074.0	12	3	2.0
3	9	1996.0	7	1	1494.0	13	0	24.0
3	10	402.0	7	2	1410.0	13	1	4.0
3	11	44.0	7	3	1218.0	13	2	2.0
3	12	2.0	7	4	866.0	14	1	2.0
4	0	9684.0	7	5	454.0	15	0	2.0
4	1	7394.0	7	6	154.0	N=16		
4	2	8148.0	7	7	28.0	1	1	42696.0
4	3	9244.0	7	8	2.0	1	2	60626.0
4	4	9732.0	8	0	1040.0	1	3	75628.0
4	5	9034.0	8	1	746.0	1	4	90924.0
4	6	6878.0	8	2	662.0	1	5	103822.0
4	7	3870.0	8	3	502.0	1	6	110292.0
4	8	1448.0	8	4	288.0	1	7	105914.0
4	9	328.0	8	5	112.0	1	8	87730.0
4	10	40.0	8	6	24.0	1	9	58296.0
4	11	2.0	8	7	2.0	1	10	28814.0
5	0	6568.0	9	0	532.0	1	11	9988.0
5	1	4808.0	9	1	364.0			

1	12	2314.0	4	5	23416.0	7	7	206.0
1	13	338.0	4	6	19570.0	7	8	32.0
1	14	28.0	4	7	13038.0	7	9	2.0
1	15	1.0	4	8	6310.0	8	0	2762.0
2	0	18228.0	4	9	2036.0	8	1	1952.0
2	1	36456.0	4	10	404.0	8	2	1754.0
2	2	49244.0	4	11	44.0	8	3	1430.0
2	3	62380.0	4	12	2.0	8	4	958.0
2	4	75072.0	5	0	16776.0	8	5	476.0
2	5	85120.0	5	1	11622.0	8	6	156.0
2	6	88532.0	5	2	12100.0	8	7	28.0
2	7	81276.0	5	3	12940.0	8	8	2.0
2	8	61344.0	5	4	12714.0	9	0	1336.0
2	9	34760.0	5	5	10952.0	9	1	938.0
2	10	13720.0	5	6	7736.0	9	2	790.0
2	11	3568.0	5	7	4104.0	9	3	564.0
2	12	576.0	5	8	1482.0	9	4	306.0
2	13	52.0	5	9	330.0	9	5	114.0
2	14	2.0	5	10	40.0	9	6	24.0
3	0	28592.0	5	11	2.0	9	7	2.0
3	1	23972.0	6	0	10088.0	10	0	664.0
3	2	29724.0	6	1	6916.0	10	1	440.0
3	3	35678.0	6	2	6872.0	10	2	324.0
3	4	41170.0	6	3	6806.0	10	3	192.0
3	5	44006.0	6	4	6016.0	10	4	80.0
3	6	42154.0	6	5	4486.0	10	5	20.0
3	7	34146.0	6	6	2592.0	10	6	2.0
3	8	21338.0	6	7	1048.0	11	0	276.0
3	9	9400.0	6	8	264.0	11	1	182.0
3	10	2724.0	6	9	36.0	11	2	118.0
3	11	486.0	6	10	2.0	11	3	54.0
3	12	48.0	7	0	5296.0	11	4	16.0
3	13	2.0	7	1	3724.0	11	5	2.0
4	0	24932.0	7	2	3608.0	12	0	142.0
4	1	18540.0	7	3	3262.0	12	1	68.0
4	2	19708.0	7	4	2554.0	12	2	36.0
4	3	22470.0	7	5	1594.0	12	3	12.0
4	4	24132.0	7	6	718.0			

12	4	2.0	2	11	19976.0	5	4	32372.0
13	0	28.0	2	12	4628.0	5	5	29390.0
13	1	26.0	2	13	676.0	5	6	22900.0
13	2	8.0	2	14	56.0	5	7	14308.0
13	3	2.0	2	15	2.0	5	8	6608.0
14	0	26.0	3	0	68184.0	5	9	2074.0
14	1	4.0	3	1	61568.0	5	10	406.0
14	2	2.0	3	2	71930.0	5	11	44.0
15	1	2.0	3	3	86582.0	5	12	2.0
16	0	2.0	3	4	100202.0	6	0	23776.0
N=17			3	5	108846.0	6	1	17106.0
1	1	109148.0	3	6	108026.0	6	2	17162.0
1	2	147538.0	3	7	94222.0	6	3	17316.0
1	3	184914.0	3	8	67630.0	6	4	15970.0
1	4	221418.0	3	9	36794.0	6	5	12908.0
1	5	253944.0	3	10	14124.0	6	6	8586.0
1	6	274008.0	3	11	3612.0	6	7	4336.0
1	7	271776.0	3	12	578.0	6	8	1516.0
1	8	239762.0	3	13	52.0	6	9	332.0
1	9	178502.0	3	14	2.0	6	10	40.0
1	10	104860.0	4	0	58010.0	6	11	2.0
1	11	45704.0	4	1	44830.0	7	0	13300.0
1	12	14088.0	4	2	48396.0	7	1	9524.0
1	13	2940.0	4	3	54782.0	7	2	9196.0
1	14	392.0	4	4	59700.0	7	3	8582.0
1	15	30.0	4	5	59804.0	7	4	7170.0
1	16	1.0	4	6	53220.0	7	5	5050.0
2	0	42696.0	4	7	39850.0	7	6	2770.0
2	1	85392.0	4	8	23278.0	7	7	1078.0
2	2	121252.0	4	9	9798.0	7	8	266.0
2	3	151256.0	4	10	2768.0	7	9	36.0
2	4	181848.0	4	11	488.0	7	10	2.0
2	5	207644.0	4	12	48.0	8	0	6880.0
2	6	220584.0	4	13	2.0	8	1	4922.0
2	7	211828.0	5	0	40030.0	8	2	4588.0
2	8	175460.0	5	1	29540.0	8	3	3938.0
2	9	116592.0	5	2	29664.0	8	4	2918.0
2	10	57628.0	5	3	32022.0			

8	5	1726.0	13	3	12.0	2	9	357004.0
8	6	744.0	13	4	2.0	2	10	209720.0
8	7	208.0	14	0	30.0	2	11	91408.0
8	8	32.0	14	1	28.0	2	12	28176.0
8	9	2.0	14	2	8.0	2	13	5880.0
9	0	3586.0	14	3	2.0	2	14	784.0
9	1	2490.0	15	0	28.0	2	15	60.0
9	2	2146.0	15	1	4.0	2	16	2.0
9	3	1658.0	15	2	2.0	3	0	170784.0
9	4	1052.0	16	1	2.0	3	1	145234.0
9	5	498.0	17	0	2.0	3	2	177910.0
9	6	158.0	N=18			3	3	211082.0
9	7	28.0	1	1	259520.0	3	4	244774.0
9	8	2.0	1	2	366522.0	3	5	268998.0
10	0	1690.0	1	3	453344.0	3	6	274042.0
10	1	1160.0	1	4	541954.0	3	7	251454.0
10	2	930.0	1	5	623074.0	3	8	198602.0
10	3	628.0	1	6	679948.0	3	9	126362.0
10	4	324.0	1	7	691022.0	3	10	60394.0
10	5	116.0	1	8	637636.0	3	11	20464.0
10	6	24.0	1	9	514554.0	3	12	4676.0
10	7	2.0	1	10	344130.0	3	13	678.0
11	0	818.0	1	11	179828.0	3	14	56.0
11	1	524.0	1	12	69826.0	3	15	2.0
11	2	366.0	1	13	19344.0	4	0	149308.0
11	3	206.0	1	14	3670.0	4	1	112788.0
11	4	82.0	1	15	450.0	4	2	118536.0
11	5	20.0	1	16	32.0	4	3	134260.0
11	6	2.0	1	17	1.0	4	4	147620.0
12	0	324.0	2	0	109148.0	4	5	151420.0
12	1	210.0	2	1	218296.0	4	6	140916.0
12	2	128.0	2	2	295076.0	4	7	114472.0
12	3	56.0	2	3	369828.0	4	8	76642.0
12	4	16.0	2	4	442836.0	4	9	39454.0
12	5	2.0	2	5	507888.0	4	10	14606.0
13	0	166.0	2	6	548016.0	4	11	3660.0
13	1	74.0	2	7	543552.0	4	12	580.0
13	2	38.0	2	8	479524.0			



4	13	52.0	7	9	334.0	11	5	118.0
4	14	2.0	7	10	40.0	11	6	24.0
5	0	102388.0	7	11	2.0	11	7	2.0
5	1	72048.0	8	0	18222.0	12	0	996.0
5	2	73556.0	8	1	12796.0	12	1	616.0
5	3	79302.0	8	2	11892.0	12	2	410.0
5	4	81824.0	8	3	10606.0	12	3	220.0
5	5	77236.0	8	4	8426.0	12	4	84.0
5	6	64490.0	8	5	5638.0	12	5	20.0
5	7	45312.0	8	6	2950.0	12	6	2.0
5	8	25080.0	8	7	1108.0	13	0	376.0
5	9	10168.0	8	8	268.0	13	1	240.0
5	10	2810.0	8	9	36.0	13	2	138.0
5	11	490.0	8	10	2.0	13	3	58.0
5	12	48.0	9	0	9076.0	13	4	16.0
5	13	2.0	9	1	6400.0	13	5	2.0
6	0	63116.0	9	2	5724.0	14	0	192.0
6	1	43534.0	9	3	4690.0	14	1	80.0
6	2	42670.0	9	4	3302.0	14	2	40.0
6	3	43812.0	9	5	1860.0	14	3	12.0
6	4	41756.0	9	6	770.0	14	4	2.0
6	5	35718.0	9	7	210.0	15	0	32.0
6	6	26256.0	9	8	32.0	15	1	30.0
6	7	15566.0	9	9	2.0	15	2	8.0
6	8	6904.0	10	0	4602.0	15	3	2.0
6	9	2112.0	10	1	3128.0	16	0	30.0
6	10	408.0	10	2	2588.0	16	1	4.0
6	11	44.0	10	3	1902.0	16	2	2.0
6	12	2.0	10	4	1148.0	17	1	2.0
7	0	34488.0	10	5	520.0	18	0	2.0
7	1	23868.0	10	6	160.0	N=19		
7	2	23302.0	10	7	28.0	1	1	664868.0
7	3	22360.0	10	8	2.0	1	2	899998.0
7	4	19542.0	11	0	2108.0	1	3	1119456.0
7	5	14974.0	11	1	1414.0	1	4	1332172.0
7	6	9458.0	11	2	1082.0	1	5	1533626.0
7	7	4570.0	11	3	694.0	1	6	1687466.0
7	8	1550.0	11	4	342.0			

1	7	1747032.0	3	8	555714.0	5	13	52.0
1	8	1667296.0	3	9	396270.0	5	14	2.0
1	9	1426240.0	3	10	224294.0	6	0	150468.0
1	10	1050026.0	3	11	95066.0	6	1	108644.0
1	11	632110.0	3	12	28756.0	6	2	107024.0
1	12	295896.0	3	13	5932.0	6	3	110370.0
1	13	103308.0	3	14	786.0	6	4	108014.0
1	14	25956.0	3	15	60.0	6	5	96436.0
1	15	4512.0	3	16	2.0	6	6	76178.0
1	16	512.0	4	0	353076.0	6	7	50780.0
1	17	34.0	4	1	275774.0	6	8	26866.0
1	18	1.0	4	2	294082.0	6	9	10536.0
2	0	259520.0	4	3	330050.0	6	10	2852.0
2	1	519040.0	4	4	365326.0	6	11	492.0
2	2	733044.0	4	5	381420.0	6	12	48.0
2	3	906688.0	4	6	367004.0	6	13	2.0
2	4	1083908.0	4	7	316124.0	7	0	85868.0
2	5	1246148.0	4	8	233636.0	7	1	61364.0
2	6	1359896.0	4	9	139978.0	7	2	58974.0
2	7	1382044.0	4	10	63934.0	7	3	57710.0
2	8	1275272.0	4	11	21038.0	7	4	52312.0
2	9	1029108.0	4	12	4728.0	7	5	42550.0
2	10	688260.0	4	13	680.0	7	6	29762.0
2	11	359656.0	4	14	56.0	7	7	16850.0
2	12	139652.0	4	15	2.0	7	8	7202.0
2	13	38688.0	5	0	246820.0	7	9	2150.0
2	14	7340.0	5	1	183478.0	7	10	410.0
2	15	900.0	5	2	181878.0	7	11	44.0
2	16	64.0	5	3	196686.0	7	12	2.0
2	17	2.0	5	4	206006.0	8	0	45340.0
3	0	412356.0	5	5	200252.0	8	1	32352.0
3	1	373714.0	5	6	175916.0	8	2	30754.0
3	2	435038.0	5	7	134590.0	8	3	28172.0
3	3	518166.0	5	8	85180.0	8	4	23530.0
3	4	600282.0	5	9	41924.0	8	5	17186.0
3	5	665028.0	5	10	15056.0	8	6	10358.0
3	6	691002.0	5	11	3706.0	8	7	4806.0
3	7	657958.0	5	12	582.0			

8	8	1584.0	12	4	360.0	1	7	4401698.0
8	9	336.0	12	5	120.0	1	8	4311564.0
8	10	40.0	12	6	24.0	1	9	3853054.0
8	11	2.0	12	7	2.0	1	10	3046580.0
9	0	23894.0	13	0	1200.0	1	11	2044874.0
9	1	16772.0	13	1	716.0	1	12	1112114.0
9	2	15108.0	13	2	456.0	1	13	469664.0
9	3	12910.0	13	3	234.0	1	14	148662.0
9	4	9794.0	13	4	86.0	1	15	34140.0
9	5	6250.0	13	5	20.0	1	16	5474.0
9	6	3132.0	13	6	2.0	1	17	578.0
9	7	1138.0	14	0	432.0	1	18	36.0
9	8	270.0	14	1	272.0	1	19	1.0
9	9	36.0	14	2	148.0	2	0	664868.0
9	10	2.0	14	3	60.0	2	1	1329736.0
10	0	11764.0	14	4	16.0	2	2	1799996.0
10	1	8174.0	14	5	2.0	2	3	2238912.0
10	2	7040.0	15	0	220.0	2	4	2664344.0
10	3	5520.0	15	1	86.0	2	5	3067252.0
10	4	3706.0	15	2	42.0	2	6	3374932.0
10	5	1996.0	15	3	12.0	2	7	3494064.0
10	6	796.0	15	4	2.0	2	8	3334592.0
10	7	212.0	16	0	34.0	2	9	2852480.0
10	8	32.0	16	1	32.0	2	10	2100052.0
10	9	2.0	16	2	8.0	2	11	1264220.0
11	0	5826.0	16	3	2.0	2	12	591792.0
11	1	3876.0	17	0	32.0	2	13	206616.0
11	2	3082.0	17	1	4.0	2	14	51912.0
11	3	2162.0	17	2	2.0	2	15	9024.0
11	4	1246.0	18	1	2.0	2	16	1024.0
11	5	542.0	19	0	2.0	2	17	68.0
11	6	162.0	N=20			2	18	2.0
11	7	28.0	1	1	1599448.0	3	0	1038080.0
11	8	2.0	1	2	2250870.0	3	1	893106.0
12	0	2596.0	1	3	2767924.0	3	2	1085240.0
12	1	1702.0	1	4	3288960.0	3	3	1275342.0
12	2	1246.0	1	5	3786760.0	3	4	1477616.0
12	3	762.0	1	6	4191576.0			

3	5	1646304.0	5	8	267818.0	8	1	83768.0
3	6	1736140.0	5	9	152792.0	8	2	78862.0
3	7	1700374.0	5	10	67224.0	8	3	74088.0
3	8	1508162.0	5	11	21576.0	8	4	64304.0
3	9	1168310.0	5	12	4778.0	8	5	50046.0
3	10	751946.0	5	13	682.0	8	6	33466.0
3	11	380658.0	5	14	56.0	8	7	18166.0
3	12	144378.0	5	15	2.0	8	8	7502.0
3	13	39368.0	6	0	396968.0	8	9	2188.0
3	14	7396.0	6	1	276082.0	8	10	412.0
3	15	902.0	6	2	267582.0	8	11	44.0
3	16	64.0	6	3	277932.0	8	12	2.0
3	17	2.0	6	4	277298.0	9	0	61192.0
4	0	909072.0	6	5	256058.0	9	1	43070.0
4	1	696026.0	6	6	213452.0	9	2	39628.0
4	2	726932.0	6	7	155158.0	9	3	34944.0
4	3	815572.0	6	8	93696.0	9	4	27986.0
4	4	905422.0	6	9	44374.0	9	5	19554.0
4	5	957984.0	6	10	15504.0	9	6	11286.0
4	6	945660.0	6	11	3752.0	9	7	5044.0
4	7	850996.0	6	12	584.0	9	8	1618.0
4	8	676260.0	6	13	52.0	9	9	338.0
4	9	454008.0	6	14	2.0	9	10	40.0
4	10	244114.0	7	0	223492.0	9	11	2.0
4	11	99662.0	7	1	154402.0	10	0	31362.0
4	12	29430.0	7	2	149502.0	10	1	21672.0
4	13	5988.0	7	3	148158.0	10	2	18904.0
4	14	788.0	7	4	138176.0	10	3	15522.0
4	15	60.0	7	5	117632.0	10	4	11276.0
4	16	2.0	7	6	88630.0	10	5	6886.0
5	0	632044.0	7	7	56446.0	10	6	3316.0
5	1	451146.0	7	8	28682.0	10	7	1168.0
5	2	454790.0	7	9	10906.0	10	8	272.0
5	3	488694.0	7	10	2894.0	10	9	36.0
5	4	517424.0	7	11	494.0	10	10	2.0
5	5	514622.0	7	12	48.0	11	0	15068.0
5	6	469864.0	7	13	2.0	11	1	10296.0
5	7	382940.0	8	0	120438.0			

11	2	8550.0	16	0	250.0	2	3	5535848.0
11	3	6430.0	16	1	92.0	2	4	6577920.0
11	4	4130.0	16	2	44.0	2	5	7573520.0
11	5	2134.0	16	3	12.0	2	6	8383152.0
11	6	822.0	16	4	2.0	2	7	8803396.0
11	7	214.0	17	0	36.0	2	8	8623128.0
11	8	32.0	17	1	34.0	2	9	7706108.0
11	9	2.0	17	2	8.0	2	10	6093160.0
12	0	7286.0	17	3	2.0	2	11	4089748.0
12	1	4744.0	18	0	34.0	2	12	2224228.0
12	2	3630.0	18	1	4.0	2	13	939328.0
12	3	2438.0	18	2	2.0	2	14	297324.0
12	4	1346.0	19	1	2.0	2	15	68280.0
12	5	564.0	20	0	2.0	2	16	10948.0
12	6	164.0	N=21			2	17	1156.0
12	7	28.0	1	1	4105276.0	2	18	72.0
12	8	2.0	1	2	5566784.0	2	19	2.0
13	0	3160.0	1	3	6886624.0	3	0	2530996.0
13	1	2026.0	1	4	8147112.0	3	1	2301700.0
13	2	1422.0	1	5	9378766.0	3	2	2675278.0
13	3	832.0	1	6	10425940.0	3	3	3158972.0
13	4	378.0	1	7	11069334.0	3	4	3649748.0
13	5	122.0	1	8	11066298.0	3	5	4082458.0
13	6	24.0	1	9	10230200.0	3	6	4354112.0
13	7	2.0	1	10	8538488.0	3	7	4358412.0
14	0	1432.0	1	11	6228768.0	3	8	4012202.0
14	1	824.0	1	12	3815282.0	3	9	3304510.0
14	2	504.0	1	13	1883126.0	3	10	2342954.0
14	3	248.0	1	14	722372.0	3	11	1363566.0
14	4	88.0	1	15	208816.0	3	12	621182.0
14	5	20.0	1	16	44128.0	3	13	212602.0
14	6	2.0	1	17	6564.0	3	14	52700.0
15	0	492.0	1	18	648.0	3	15	9084.0
15	1	306.0	1	19	38.0	3	16	1026.0
15	2	158.0	1	20	1.0	3	17	68.0
15	3	62.0	2	0	1599448.0	3	18	2.0
15	4	16.0	2	1	3198896.0	4	0	2177242.0
15	5	2.0	2	2	4501740.0			

4	1	1716108.0	6	4	708396.0	8	11	496.0
4	2	1816586.0	6	5	671834.0	8	12	48.0
4	3	2020140.0	6	6	583990.0	8	13	2.0
4	4	2248594.0	6	7	453156.0	9	0	159064.0
4	5	2402886.0	6	8	302434.0	9	1	112110.0
4	6	2419436.0	6	9	165548.0	9	2	103264.0
4	7	2251956.0	6	10	70490.0	9	3	93396.0
4	8	1889988.0	6	11	22112.0	9	4	78008.0
4	9	1382364.0	6	12	4828.0	9	5	58278.0
4	10	843204.0	6	13	684.0	9	6	37378.0
4	11	408618.0	6	14	56.0	9	7	19514.0
4	12	150222.0	6	15	2.0	9	8	7804.0
4	13	40150.0	7	0	555228.0	9	9	2226.0
4	14	7456.0	7	1	397360.0	9	10	414.0
4	15	904.0	7	2	378352.0	9	11	44.0
4	16	64.0	7	3	378700.0	9	12	2.0
4	17	2.0	7	4	361538.0	10	0	80456.0
5	0	1537062.0	7	5	319036.0	10	1	56294.0
5	1	1150980.0	7	6	254256.0	10	2	50320.0
5	2	1132490.0	7	7	176838.0	10	3	42788.0
5	3	1217910.0	7	8	102466.0	10	4	32942.0
5	4	1298712.0	7	9	46858.0	10	5	22080.0
5	5	1314594.0	7	10	15954.0	10	6	12242.0
5	6	1237054.0	7	11	3798.0	10	7	5284.0
5	7	1058020.0	7	12	586.0	10	8	1652.0
5	8	797924.0	7	13	52.0	10	9	340.0
5	9	509614.0	7	14	2.0	10	10	40.0
5	10	262692.0	8	0	299294.0	10	11	2.0
5	11	103940.0	8	1	213230.0	11	0	40594.0
5	12	30064.0	8	2	202798.0	11	1	27612.0
5	13	6042.0	8	3	193308.0	11	2	23356.0
5	14	790.0	8	4	173058.0	11	3	18460.0
5	15	60.0	8	5	141348.0	11	4	12874.0
5	16	2.0	8	6	102090.0	11	5	7546.0
6	0	955516.0	8	7	62370.0	11	6	3502.0
6	1	693452.0	8	8	30534.0	11	7	1198.0
6	2	674248.0	8	9	11278.0	11	8	274.0
6	3	699080.0	8	10	2936.0			

11	9	36.0	16	2	168.0	1	20	40.0
11	10	2.0	16	3	64.0	1	21	1.0
12	0	19070.0	16	4	16.0	2	0	4105276.0
12	1	12808.0	16	5	2.0	2	1	8210552.0
12	2	10268.0	17	0	282.0	2	2	11133568.0
12	3	7422.0	17	1	98.0	2	3	13773248.0
12	4	4574.0	17	2	46.0	2	4	16294224.0
12	5	2274.0	17	3	12.0	2	5	18757532.0
12	6	848.0	17	4	2.0	2	6	20851880.0
12	7	216.0	18	0	38.0	2	7	22138668.0
12	8	32.0	18	1	36.0	2	8	22132596.0
12	9	2.0	18	2	8.0	2	9	20460400.0
13	0	9012.0	18	3	2.0	2	10	17076976.0
13	1	5742.0	19	0	36.0	2	11	12457536.0
13	2	4234.0	19	1	4.0	2	12	7630564.0
13	3	2730.0	19	2	2.0	2	13	3766252.0
13	4	1448.0	20	1	2.0	2	14	1444744.0
13	5	586.0	21	0	2.0	2	15	417632.0
13	6	166.0	N=22			2	16	88256.0
13	7	28.0	1	1	9969396.0	2	17	13128.0
13	8	2.0	1	2	13995378.0	2	18	1296.0
14	0	3806.0	1	3	17142106.0	2	19	76.0
14	1	2388.0	1	4	20256622.0	2	20	2.0
14	2	1610.0	1	5	23295428.0	3	0	6397792.0
14	3	904.0	1	6	25975352.0	3	1	5557992.0
14	4	396.0	1	7	27814192.0	3	2	6716096.0
14	5	124.0	1	8	28259724.0	3	3	7834912.0
14	6	24.0	1	9	26834738.0	3	4	9046384.0
14	7	2.0	1	10	23359084.0	3	5	10144012.0
15	0	1694.0	1	11	18170334.0	3	6	10912236.0
15	1	940.0	1	12	12221092.0	3	7	11111024.0
15	2	554.0	1	13	6846442.0	3	8	10529780.0
15	3	262.0	1	14	3081986.0	3	9	9087046.0
15	4	90.0	1	15	1080700.0	3	10	6932394.0
15	5	20.0	1	16	287146.0	3	11	4496590.0
15	6	2.0	1	17	56168.0	3	12	2374058.0
16	0	556.0	1	18	7790.0	3	13	979434.0
16	1	342.0	1	19	722.0			

3	14	304778.0	5	13	40888.0	8	0	794300.0
3	15	69184.0	5	14	7514.0	8	1	550598.0
3	16	11012.0	5	15	906.0	8	2	518514.0
3	17	1158.0	5	16	64.0	8	3	501888.0
3	18	72.0	5	17	2.0	8	4	460524.0
3	19	2.0	6	0	2511232.0	8	5	390734.0
4	0	5609888.0	6	1	1762496.0	8	6	299256.0
4	1	4344058.0	6	2	1694950.0	8	7	199982.0
4	2	4521748.0	6	3	1761092.0	8	8	111562.0
4	3	5027700.0	6	4	1803760.0	8	9	49382.0
4	4	5595284.0	6	5	1747610.0	8	10	16406.0
4	5	6025066.0	6	6	1570746.0	8	11	3844.0
4	6	6161366.0	6	7	1282226.0	8	12	588.0
4	7	5888944.0	6	8	923868.0	8	13	52.0
4	8	5155668.0	6	9	565574.0	8	14	2.0
4	9	4025836.0	6	10	281168.0	9	0	411680.0
4	10	2706900.0	6	11	108190.0	9	1	288162.0
4	11	1502696.0	6	12	30696.0	9	2	268396.0
4	12	659586.0	6	13	6096.0	9	3	247464.0
4	13	219902.0	6	14	792.0	9	4	213578.0
4	14	53598.0	6	15	60.0	9	5	167984.0
4	15	9148.0	6	16	2.0	9	6	116650.0
4	16	1028.0	7	0	1446412.0	9	7	68562.0
4	17	68.0	7	1	1002598.0	9	8	32422.0
4	18	2.0	7	2	961478.0	9	9	11652.0
5	0	3941316.0	7	3	965948.0	9	10	2978.0
5	1	2848240.0	7	4	939082.0	9	11	498.0
5	2	2848896.0	7	5	853342.0	9	12	48.0
5	3	3040152.0	7	6	710592.0	9	13	2.0
5	4	3259532.0	7	7	528520.0	10	0	212670.0
5	5	3345428.0	7	8	338614.0	10	1	147954.0
5	6	3224014.0	7	9	178622.0	10	2	132826.0
5	7	2863686.0	7	10	73794.0	10	3	116202.0
5	8	2288816.0	7	11	22650.0	10	4	93596.0
5	9	1594500.0	7	12	4878.0	10	5	67282.0
5	10	930282.0	7	13	686.0	10	6	41500.0
5	11	434768.0	7	14	56.0	10	7	20894.0
5	12	155672.0	7	15	2.0			



10	8	8108.0	14	0	11036.0	19	3	2.0
10	9	2264.0	14	1	6880.0	20	0	38.0
10	10	416.0	14	2	4896.0	20	1	4.0
10	11	44.0	14	3	3038.0	20	2	2.0
10	12	2.0	14	4	1552.0	21	1	2.0
11	0	105192.0	14	5	608.0	22	0	2.0
11	1	72628.0	14	6	168.0	N=23		
11	2	63074.0	14	7	28.0	1	1	25630164.0
11	3	51812.0	14	8	2.0	1	2	34816450.0
11	4	38420.0	15	0	4540.0	1	3	42903210.0
11	5	24766.0	15	1	2790.0	1	4	50497136.0
11	6	13226.0	15	2	1810.0	1	5	58022710.0
11	7	5526.0	15	3	978.0	1	6	64830586.0
11	8	1686.0	15	4	414.0	1	7	69881576.0
11	9	342.0	15	5	126.0	1	8	71923700.0
11	10	40.0	15	6	24.0	1	9	69783154.0
11	11	2.0	15	7	2.0	1	10	62810394.0
12	0	51950.0	16	0	1988.0	1	11	51380440.0
12	1	34760.0	16	1	1064.0	1	12	37197152.0
12	2	28530.0	16	2	606.0	1	13	23077184.0
12	3	21742.0	16	3	276.0	1	14	11859754.0
12	4	14590.0	16	4	92.0	1	15	4893470.0
12	5	8230.0	16	5	20.0	1	16	1577632.0
12	6	3690.0	16	6	2.0	1	17	387508.0
12	7	1228.0	17	0	624.0	1	18	70524.0
12	8	276.0	17	1	380.0	1	19	9160.0
12	9	36.0	17	2	178.0	1	20	800.0
12	10	2.0	17	3	66.0	1	21	42.0
13	0	23872.0	17	4	16.0	1	22	1.0
13	1	15754.0	17	5	2.0	2	0	9969396.0
13	2	12208.0	18	0	316.0	2	1	19938792.0
13	3	8498.0	18	1	104.0	2	2	27990756.0
13	4	5038.0	18	2	48.0	2	3	34284212.0
13	5	2416.0	18	3	12.0	2	4	40513244.0
13	6	874.0	18	4	2.0	2	5	46590856.0
13	7	218.0	19	0	40.0	2	6	51950704.0
13	8	32.0	19	1	38.0	2	7	55628384.0
13	9	2.0	19	2	8.0			

2	8	56519448.0	4	3	12535032.0	6	2	4287584.0
2	9	53669476.0	4	4	13955940.0	6	3	4436432.0
2	10	46718168.0	4	5	15111972.0	6	4	4584514.0
2	11	36340668.0	4	6	15644272.0	6	5	4518164.0
2	12	24442184.0	4	7	15271630.0	6	6	4172034.0
2	13	13692884.0	4	8	13824428.0	6	7	3546178.0
2	14	6163972.0	4	9	11359164.0	6	8	2712478.0
2	15	2161400.0	4	10	8238252.0	6	9	1811700.0
2	16	574292.0	4	11	5091996.0	6	10	1017554.0
2	17	112336.0	4	12	2579652.0	6	11	460764.0
2	18	15580.0	4	13	1030986.0	6	12	161090.0
2	19	1444.0	4	14	313758.0	6	13	41624.0
2	20	80.0	4	15	70206.0	6	14	7572.0
2	21	2.0	4	16	11080.0	6	15	908.0
3	0	15721556.0	4	17	1160.0	6	16	64.0
3	1	14342534.0	4	18	72.0	6	17	2.0
3	2	16664014.0	4	19	2.0	7	0	3596146.0
3	3	19543686.0	5	0	9656102.0	7	1	2581336.0
3	4	22486802.0	5	1	7279050.0	7	2	2438446.0
3	5	25258140.0	5	2	7133204.0	7	3	2460770.0
3	6	27350676.0	5	3	7615268.0	7	4	2427182.0
3	7	28226000.0	5	4	8185552.0	7	5	2258528.0
3	8	27373104.0	5	5	8492972.0	7	6	1948658.0
3	9	24502484.0	5	6	8342516.0	7	7	1527372.0
3	10	19776442.0	5	7	7637074.0	7	8	1057640.0
3	11	13953270.0	5	8	6389382.0	7	9	623670.0
3	12	8287666.0	5	9	4763020.0	7	10	300034.0
3	13	3985678.0	5	10	3062556.0	7	11	112482.0
3	14	1498294.0	5	11	1634590.0	7	12	31330.0
3	15	426778.0	5	12	695468.0	7	13	6150.0
3	16	89284.0	5	13	226724.0	7	14	794.0
3	17	13196.0	5	14	54448.0	7	15	60.0
3	18	1298.0	5	15	9210.0	7	16	2.0
3	19	76.0	5	16	1030.0	8	0	1975030.0
3	20	2.0	5	17	68.0	8	1	1407686.0
4	0	13572338.0	5	18	2.0	8	2	1330992.0
4	1	10782022.0	6	0	6094958.0	8	3	1296920.0
4	2	11361788.0	6	1	4447462.0	8		

8	4	1215100.0	10	11	500.0	13	10	2.0
8	5	1063300.0	10	12	48.0	14	0	29584.0
8	6	852682.0	10	13	2.0	14	1	19180.0
8	7	610556.0	11	0	279462.0	14	2	14384.0
8	8	376842.0	11	1	192514.0	14	3	9660.0
8	9	192098.0	11	2	168686.0	14	4	5522.0
8	10	77142.0	11	3	142934.0	14	5	2560.0
8	11	23190.0	11	4	111216.0	14	6	900.0
8	12	4928.0	11	5	77084.0	14	7	220.0
8	13	688.0	11	6	45834.0	14	8	32.0
8	14	56.0	11	7	22306.0	14	9	2.0
8	15	2.0	11	8	8414.0	15	0	13392.0
9	0	1060030.0	11	9	2302.0	15	1	8168.0
9	1	748882.0	11	10	418.0	15	2	5618.0
9	2	694982.0	11	11	44.0	15	3	3362.0
9	3	651106.0	11	12	2.0	15	4	1658.0
9	4	577288.0	12	0	135906.0	15	5	630.0
9	5	472746.0	12	1	92562.0	15	6	170.0
9	6	349016.0	12	2	78166.0	15	7	28.0
9	7	224702.0	12	3	62114.0	15	8	2.0
9	8	120994.0	12	4	44442.0	16	0	5368.0
9	9	51946.0	12	5	27614.0	16	1	3234.0
9	10	16860.0	12	6	14238.0	16	2	2022.0
9	11	3890.0	12	7	5770.0	16	3	1054.0
9	12	590.0	12	8	1720.0	16	4	432.0
9	13	52.0	12	9	344.0	16	5	128.0
9	14	2.0	12	10	40.0	16	6	24.0
10	0	545712.0	12	11	2.0	16	7	2.0
10	1	383430.0	13	0	65768.0	17	0	2316.0
10	2	349518.0	13	1	43282.0	17	1	1196.0
10	3	312240.0	13	2	34494.0	17	2	660.0
10	4	260588.0	13	3	25386.0	17	3	290.0
10	5	197780.0	13	4	16426.0	17	4	94.0
10	6	132350.0	13	5	8938.0	17	5	20.0
10	7	75024.0	13	6	3880.0	17	6	2.0
10	8	34346.0	13	7	1258.0	18	0	696.0
10	9	12028.0	13	8	278.0	18	1	420.0
10	10	3020.0	13	9	36.0			

18	2	188.0	1	20	10682.0	3	11	41414230.0
18	3	68.0	1	21	882.0	3	12	27010610.0
18	4	16.0	1	22	44.0	3	13	14720518.0
18	5	2.0	1	23	1.0	3	14	6477162.0
19	0	352.0	2	0	25630164.0	3	15	2231554.0
19	1	110.0	2	1	51260328.0	3	16	585370.0
19	2	50.0	2	2	69632900.0	3	17	113496.0
19	3	12.0	2	3	85806420.0	3	18	15652.0
19	4	2.0	2	4	100994272.0	3	19	1446.0
20	0	42.0	2	5	116045420.0	3	20	80.0
20	1	40.0	2	6	129661172.0	3	21	2.0
20	2	8.0	2	7	139763152.0	4	0	35000368.0
20	3	2.0	2	8	143847400.0	4	1	27365216.0
21	0	40.0	2	9	139566308.0	4	2	28437070.0
21	1	4.0	2	10	125620788.0	4	3	31383308.0
21	2	2.0	2	11	102760880.0	4	4	34879112.0
22	1	2.0	2	12	74394304.0	4	5	37931302.0
23	0	2.0	2	13	46154368.0	4	6	39651830.0
N=24			2	14	23719508.0	4	7	39370088.0
1	1	62724196.0	2	15	9786940.0	4	8	36609566.0
1	2	87902070.0	2	16	3155264.0	4	9	31324448.0
1	3	107372012.0	2	17	775016.0	4	10	24112684.0
1	4	126283758.0	2	18	141048.0	4	11	16226980.0
1	5	144883154.0	2	19	18320.0	4	12	9229060.0
1	6	162104144.0	2	20	1600.0	4	13	4281336.0
1	7	175638542.0	2	21	84.0	4	14	1566130.0
1	8	182658080.0	2	22	2.0	4	15	437678.0
1	9	180342808.0	3	0	39877584.0	4	16	90438.0
1	10	166771424.0	3	1	34928422.0	4	17	13268.0
1	11	142020882.0	3	2	42038704.0	4	18	1300.0
1	12	109001836.0	3	3	48773024.0	4	19	76.0
1	13	73400110.0	3	4	56072318.0	4	20	2.0
1	14	42061972.0	3	5	63024960.0	5	0	24792968.0
1	15	19898650.0	3	6	68590972.0	5	1	18109340.0
1	16	7562034.0	3	7	71548104.0	5	2	18025978.0
1	17	2253384.0	3	8	70681028.0	5	3	19099998.0
1	18	514270.0	3	9	65144960.0	5	4	20576144.0
1	19	87476.0	3	10	54963356.0			

5	5	21531784.0	7	4	6249768.0	9	7	700032.0
5	6	21478002.0	7	5	5930846.0	9	8	417250.0
5	7	20147492.0	7	6	5267896.0	9	9	205986.0
5	8	17485134.0	7	7	4306670.0	9	10	80534.0
5	9	13752910.0	7	8	3170112.0	9	11	23732.0
5	10	9549304.0	7	9	2040432.0	9	12	4978.0
5	11	5667628.0	7	10	1107670.0	9	13	690.0
5	12	2773674.0	7	11	487230.0	9	14	56.0
5	13	1079144.0	7	12	166554.0	9	15	2.0
5	14	322168.0	7	13	42362.0	10	0	1439798.0
5	15	71176.0	7	14	7630.0	10	1	1003094.0
5	16	11146.0	7	15	910.0	10	2	914144.0
5	17	1162.0	7	16	64.0	10	3	832222.0
5	18	72.0	7	17	2.0	10	4	714868.0
5	19	2.0	8	0	5231234.0	10	5	566336.0
6	0	15977940.0	8	1	3628344.0	10	6	403852.0
6	1	11312822.0	8	2	3404102.0	10	7	251042.0
6	2	10825864.0	8	3	3344674.0	10	8	130764.0
6	3	11201292.0	8	4	3185096.0	10	9	54550.0
6	4	11637870.0	8	5	2859226.0	10	10	17316.0
6	5	11630456.0	8	6	2379588.0	10	11	3936.0
6	6	10978212.0	8	7	1798934.0	10	12	592.0
6	7	9642498.0	8	8	1201600.0	10	13	52.0
6	8	7735842.0	8	9	684542.0	10	14	2.0
6	9	5534346.0	8	10	319386.0	11	0	725332.0
6	10	3423820.0	8	11	116822.0	11	1	503946.0
6	11	1766422.0	8	12	31966.0	11	2	448810.0
6	12	731136.0	8	13	6204.0	11	3	389450.0
6	13	233510.0	8	14	796.0	11	4	314772.0
6	14	55296.0	8	15	60.0	11	5	230932.0
6	15	9272.0	8	16	2.0	11	6	149220.0
6	16	1032.0	9	0	2761692.0	11	7	81758.0
6	17	68.0	9	1	1925908.0	11	8	36306.0
6	18	2.0	9	2	1798992.0	11	9	12406.0
7	0	9370048.0	9	3	1704594.0	11	10	3062.0
7	1	6528756.0	9	4	1544820.0	11	11	502.0
7	2	6213356.0	9	5	1307272.0	11	12	48.0
7	3	6264554.0	9	6	1012818.0			

11	13	2.0	15	1	23134.0	19	5	2.0
12	0	364180.0	15	2	16810.0	20	0	390.0
12	1	247646.0	15	3	10910.0	20	1	116.0
12	2	211782.0	15	4	6026.0	20	2	52.0
12	3	174032.0	15	5	2706.0	20	3	12.0
12	4	131006.0	15	6	926.0	20	4	2.0
12	5	87710.0	15	7	222.0	21	0	44.0
12	6	50382.0	15	8	32.0	21	1	42.0
12	7	23750.0	15	9	2.0	21	2	8.0
12	8	8722.0	16	0	16116.0	21	3	2.0
12	9	2340.0	16	1	9616.0	22	0	42.0
12	10	420.0	16	2	6402.0	22	1	4.0
12	11	44.0	16	3	3702.0	22	2	2.0
12	12	2.0	16	4	1766.0	23	1	2.0
13	0	173756.0	16	5	652.0	24	0	2.0
13	1	116686.0	16	6	172.0	N=25		
13	2	95874.0	16	7	28.0	1	1	161490168.0
13	3	73794.0	16	8	2.0	1	2	219746494.0
13	4	51030.0	17	0	6296.0	1	3	270017398.0
13	5	30626.0	17	1	3722.0	1	4	316464916.0
13	6	15278.0	17	2	2246.0	1	5	362661574.0
13	7	6016.0	17	3	1132.0	1	6	406073204.0
13	8	1754.0	17	4	450.0	1	7	441748562.0
13	9	346.0	17	5	130.0	1	8	463279618.0
13	10	40.0	17	6	24.0	1	9	463983872.0
13	11	2.0	17	7	2.0	1	10	438666420.0
14	0	82438.0	18	0	2680.0	1	11	385969806.0
14	1	53356.0	18	1	1336.0	1	12	310489290.0
14	2	41318.0	18	2	716.0	1	13	223344760.0
14	3	29410.0	18	3	304.0	1	14	139918296.0
14	4	18384.0	18	4	96.0	1	15	74210720.0
14	5	9670.0	18	5	20.0	1	16	32436242.0
14	6	4072.0	18	6	2.0	1	17	11405350.0
14	7	1288.0	19	0	772.0	1	18	3156396.0
14	8	280.0	19	1	462.0	1	19	672344.0
14	9	36.0	19	2	198.0	1	20	107320.0
14	10	2.0	19	3	70.0	1	21	12364.0
15	0	36324.0	19	4	16.0			

1	22	968.0	3	11	118968348.0	5	4	51778756.0
1	23	46.0	3	12	83586666.0	5	5	54549638.0
1	24	1.0	3	13	50418638.0	5	6	55100416.0
2	0	62724196.0	3	14	25281242.0	5	7	52726738.0
2	1	125448392.0	3	15	10223950.0	5	8	47144836.0
2	2	175804140.0	3	16	3245646.0	5	9	38720034.0
2	3	214744024.0	3	17	788282.0	5	10	28589326.0
2	4	252567516.0	3	18	142348.0	5	11	18477236.0
2	5	289766308.0	3	19	18396.0	5	12	10131796.0
2	6	324208288.0	3	20	1602.0	5	13	4559502.0
2	7	351277084.0	3	21	84.0	5	14	1629524.0
2	8	365316160.0	3	22	2.0	5	15	447908.0
2	9	360685616.0	4	0	85381458.0	5	16	91536.0
2	10	333542848.0	4	1	68290260.0	5	17	13338.0
2	11	284041764.0	4	2	71763496.0	5	18	1302.0
2	12	218003672.0	4	3	78670884.0	5	19	76.0
2	13	146800220.0	4	4	87377262.0	5	20	2.0
2	14	84123944.0	4	5	95300102.0	6	0	39054904.0
2	15	39797300.0	4	6	100404378.0	6	1	28649778.0
2	16	15124068.0	4	7	101074654.0	6	2	27471946.0
2	17	4506768.0	4	8	96063168.0	6	3	28295766.0
2	18	1028540.0	4	9	84930870.0	6	4	29534238.0
2	19	174952.0	4	10	68568012.0	6	5	29846750.0
2	20	21364.0	4	11	49382020.0	6	6	28687122.0
2	21	1764.0	4	12	30831956.0	6	7	25884652.0
2	22	88.0	4	13	16164636.0	6	8	21587418.0
2	23	2.0	4	14	6892324.0	6	9	16318282.0
3	0	98626852.0	4	15	2319274.0	6	10	10905126.0
3	1	90235714.0	4	16	598446.0	6	11	6248996.0
3	2	104865018.0	4	17	114790.0	6	12	2967266.0
3	3	122344140.0	4	18	15728.0	6	13	1127020.0
3	4	140146732.0	4	19	1448.0	6	14	330538.0
3	5	157591982.0	4	20	80.0	6	15	72144.0
3	6	172169036.0	4	21	2.0	6	16	11212.0
3	7	181135614.0	5	0	61124050.0	6	17	1164.0
3	8	181640940.0	5	1	46355368.0	6	18	72.0
3	9	171425032.0	5	2	45335260.0	6	19	2.0
3	10	149870752.0	5	3	48067304.0	6		

7	0	23342884.0	9	1	5003792.0	11	6	464016.0
7	1	16816386.0	9	2	4645342.0	11	7	279036.0
7	2	15795526.0	9	3	4444906.0	11	8	140874.0
7	3	15953332.0	9	4	4102900.0	11	9	57194.0
7	4	16052412.0	9	5	3566794.0	11	10	17774.0
7	5	15481200.0	9	6	2873272.0	11	11	3982.0
7	6	14085930.0	9	7	2100802.0	11	12	594.0
7	7	11920048.0	9	8	1356760.0	11	13	52.0
7	8	9215682.0	9	9	748342.0	11	14	2.0
7	9	6359068.0	9	10	339234.0	12	0	951582.0
7	10	3801600.0	9	11	121210.0	12	1	654424.0
7	11	1901958.0	9	12	32604.0	12	2	569844.0
7	12	767362.0	9	13	6258.0	12	3	480752.0
7	13	240346.0	9	14	798.0	12	4	376806.0
7	14	56146.0	9	15	60.0	12	5	267626.0
7	15	9334.0	9	16	2.0	12	6	167290.0
7	16	1034.0	10	0	3688808.0	12	7	88766.0
7	17	68.0	10	1	2598990.0	12	8	38302.0
7	18	2.0	10	2	2390422.0	12	9	12786.0
8	0	13028764.0	10	3	2203856.0	12	10	3104.0
8	1	9301634.0	10	4	1938822.0	12	11	504.0
8	2	8738256.0	10	5	1590416.0	12	12	48.0
8	3	8602866.0	10	6	1192820.0	12	13	2.0
8	4	8308394.0	10	7	797348.0	13	0	469618.0
8	5	7618104.0	10	8	459886.0	13	1	315186.0
8	6	6536882.0	10	9	220288.0	13	2	263152.0
8	7	5162556.0	10	10	83970.0	13	3	209942.0
8	8	3671090.0	10	11	24276.0	13	4	153106.0
8	9	2284180.0	10	12	5028.0	13	5	99186.0
8	10	1201450.0	10	13	692.0	13	6	55146.0
8	11	514274.0	10	14	56.0	13	7	25226.0
8	12	172070.0	10	15	2.0	13	8	9032.0
8	13	43102.0	11	0	1910514.0	13	9	2378.0
8	14	7688.0	11	1	1326792.0	13	10	422.0
8	15	912.0	11	2	1186566.0	13	11	44.0
8	16	64.0	11	3	1050866.0	13	12	2.0
8	17	2.0	11	4	876194.0	13	13	2.0
9	0	7069298.0	11	5	672532.0	14	0	219976.0



14	1	145630.0	17	6	174.0	N=26		
14	2	116492.0	17	7	28.0	1	1	397770544.0
14	3	86954.0	17	8	2.0	1	2	556743004.0
14	4	58206.0	18	0	7330.0	1	3	678771306.0
14	5	33804.0	18	1	4256.0	1	4	795224746.0
14	6	16346.0	18	2	2482.0	1	5	909765736.0
14	7	6264.0	18	3	1212.0	1	6	1019060124.0
14	8	1788.0	18	4	468.0	1	7	1112039564.0
14	9	348.0	18	5	132.0	1	8	1174228922.0
14	10	40.0	18	6	24.0	1	9	1189925870.0
14	11	2.0	18	7	2.0	1	10	1145748328.0
15	0	102390.0	19	0	3082.0	1	11	1035590080.0
15	1	65172.0	19	1	1484.0	1	12	865654420.0
15	2	49074.0	19	2	774.0	1	13	656988354.0
15	3	33832.0	19	3	318.0	1	14	442705228.0
15	4	20466.0	19	4	98.0	1	15	258240558.0
15	5	10426.0	19	5	20.0	1	16	127081604.0
15	6	4266.0	19	6	2.0	1	17	51508250.0
15	7	1318.0	20	0	852.0	1	18	16829762.0
15	8	282.0	20	1	506.0	1	19	4344388.0
15	9	36.0	20	2	208.0	1	20	867218.0
15	10	2.0	20	3	72.0	1	21	130368.0
16	0	44218.0	20	4	16.0	1	22	14214.0
16	1	27666.0	20	5	2.0	1	23	1058.0
16	2	19500.0	21	0	430.0	1	24	48.0
16	3	12250.0	21	1	122.0	1	25	1.0
16	4	6550.0	21	2	54.0	2	0	161490168.0
16	5	2854.0	21	3	12.0	2	1	322980336.0
16	6	952.0	21	4	2.0	2	2	439492988.0
16	7	224.0	22	0	46.0	2	3	540034796.0
16	8	32.0	22	1	44.0	2	4	632929832.0
16	9	2.0	22	2	8.0	2	5	725323148.0
17	0	19246.0	22	3	2.0	2	6	812146408.0
17	1	11234.0	23	0	44.0	2	7	883497124.0
17	2	7250.0	23	1	4.0	2	8	926559236.0
17	3	4058.0	23	2	2.0	2	9	927967744.0
17	4	1876.0	24	1	2.0	2	10	877332840.0
17	5	674.0	25	0	2.0			

2	11	771939612.0	4	0	220378444.0	5	15	2401312.0
2	12	620978580.0	4	1	173736270.0	5	16	610744.0
2	13	446689520.0	4	2	180419514.0	5	17	116024.0
2	14	279836592.0	4	3	197929630.0	5	18	15802.0
2	15	148421440.0	4	4	219301400.0	5	19	1450.0
2	16	64872484.0	4	5	239716426.0	5	20	80.0
2	17	22810700.0	4	6	254139966.0	5	21	2.0
2	18	6312792.0	4	7	258738084.0	6	0	102211800.0
2	19	1344688.0	4	8	250360342.0	6	1	72957690.0
2	20	214640.0	4	9	227363080.0	6	2	69612268.0
2	21	24728.0	4	10	190803846.0	6	3	71646134.0
2	22	1936.0	4	11	145140464.0	6	4	74939414.0
2	23	92.0	4	12	97720836.0	6	5	76433354.0
2	24	2.0	4	13	56639068.0	6	6	74572674.0
3	0	250896784.0	4	14	27437876.0	6	7	68806182.0
3	1	221306306.0	4	15	10794792.0	6	8	59247852.0
3	2	265580562.0	4	16	3357346.0	6	9	46842218.0
3	3	306861782.0	4	17	803806.0	6	10	33316330.0
3	4	351264892.0	4	18	143790.0	6	11	20783554.0
3	5	394844688.0	4	19	18476.0	6	12	11039772.0
3	6	432626250.0	4	20	1604.0	6	13	4836742.0
3	7	458304830.0	4	21	84.0	6	14	1692560.0
3	8	465237154.0	4	22	2.0	6	15	458094.0
3	9	447666352.0	5	0	157144644.0	6	16	92632.0
3	10	402891036.0	5	1	115848828.0	6	17	13408.0
3	11	333545232.0	5	2	114976530.0	6	18	1304.0
3	12	248760260.0	5	3	121076200.0	6	19	76.0
3	13	162899782.0	5	4	130484882.0	6	20	2.0
3	14	90991450.0	5	5	138173194.0	7	0	60817704.0
3	15	42110942.0	5	6	141008894.0	7	1	42623598.0
3	16	15721738.0	5	7	137168776.0	7	2	40342562.0
3	17	4621498.0	5	8	125695578.0	7	3	40626002.0
3	18	1044266.0	5	9	106948820.0	7	4	41156040.0
3	19	176400.0	5	10	83000238.0	7	5	40230390.0
3	20	21444.0	5	11	57468630.0	7	6	37346598.0
3	21	1766.0	5	12	34570688.0	7	7	32523630.0
3	22	88.0	5	13	17540948.0	7	8	26176104.0
3	23	2.0	5	14	7282154.0			

7	9	19104990.0	9	8	4221082.0	11	11	24822.0
7	10	12342464.0	9	9	2544240.0	11	12	5078.0
7	11	6853432.0	9	10	1299066.0	11	13	694.0
7	12	3165590.0	9	11	541906.0	11	14	56.0
7	13	1175550.0	9	12	177638.0	11	15	2.0
7	14	338962.0	9	13	43844.0	12	0	2526964.0
7	15	73114.0	9	14	7746.0	12	1	1736038.0
7	16	11278.0	9	15	914.0	12	2	1522072.0
7	17	1166.0	9	16	64.0	12	3	1313238.0
7	18	72.0	9	17	2.0	12	4	1064044.0
7	19	2.0	10	0	9735090.0	12	5	792334.0
8	0	34441700.0	10	1	6779658.0	12	6	529750.0
8	1	23949960.0	10	2	6222356.0	12	7	308718.0
8	2	22377686.0	10	3	5810036.0	12	8	151326.0
8	3	22118766.0	10	4	5212228.0	12	9	59878.0
8	4	21588314.0	10	5	4400076.0	12	10	18234.0
8	5	20152632.0	10	6	3437956.0	12	11	4028.0
8	6	17739236.0	10	7	2435512.0	12	12	596.0
8	7	14521842.0	10	8	1523612.0	12	13	52.0
8	8	10861276.0	10	9	815122.0	12	14	2.0
8	9	7252414.0	10	10	359580.0	13	0	1237216.0
8	10	4200840.0	10	11	125646.0	13	1	840998.0
8	11	2042222.0	10	12	33244.0	13	2	716106.0
8	12	804266.0	10	13	6312.0	13	3	587912.0
8	13	247238.0	10	14	800.0	13	4	447376.0
8	14	56998.0	10	15	60.0	13	5	308050.0
8	15	9396.0	10	16	2.0	13	6	186590.0
8	16	1036.0	11	0	4971408.0	13	7	96050.0
8	17	68.0	11	1	3464074.0	13	8	40334.0
8	18	2.0	11	2	3129788.0	13	9	13168.0
9	0	18480540.0	11	3	2814462.0	13	10	3146.0
9	1	12873274.0	11	4	2407520.0	13	11	506.0
9	2	12006746.0	11	5	1917378.0	13	12	48.0
9	3	11556488.0	11	6	1394164.0	13	13	2.0
9	4	10831080.0	11	7	902820.0	14	0	599808.0
9	5	9631552.0	11	8	504788.0	14	1	397246.0
9	6	8011546.0	11	9	235006.0	14	2	323902.0
9	7	6130040.0	11	10	87450.0			

14	3	251130.0	17	5	3004.0	22	3	12.0
14	4	177658.0	17	6	978.0	22	4	2.0
14	5	111538.0	17	7	226.0	23	0	48.0
14	6	60128.0	17	8	32.0	23	1	46.0
14	7	26734.0	17	9	2.0	23	2	8.0
14	8	9344.0	18	0	22822.0	23	3	2.0
14	9	2416.0	18	1	13032.0	24	0	46.0
14	10	424.0	18	2	8164.0	24	1	4.0
14	11	44.0	18	3	4430.0	24	2	2.0
14	12	2.0	18	4	1988.0	25	1	2.0
15	0	275968.0	18	5	696.0	26	0	2.0
15	1	180082.0	18	6	176.0	N=27		
15	2	140330.0	18	7	28.0	1	1	1025424060.0
15	3	101698.0	18	8	2.0	1	2	1397576904.0
15	4	65992.0	19	0	8476.0	1	3	1713698730.0
15	5	37150.0	19	1	4838.0	1	4	2001558076.0
15	6	17442.0	19	2	2730.0	1	5	2287127778.0
15	7	6514.0	19	3	1294.0	1	6	2561852708.0
15	8	1822.0	19	4	486.0	1	7	2802283368.0
15	9	350.0	19	5	134.0	1	8	2975508024.0
15	10	40.0	19	6	24.0	1	9	3044819090.0
15	11	2.0	19	7	2.0	1	10	2976741706.0
16	0	126096.0	20	0	3524.0	1	11	2751403864.0
16	1	78932.0	20	1	1640.0	1	12	2374060180.0
16	2	57836.0	20	2	834.0	1	13	1882911018.0
16	3	38670.0	20	3	332.0	1	14	1347068106.0
16	4	22674.0	20	4	100.0	1	15	850350424.0
16	5	11206.0	20	5	20.0	1	16	462510624.0
16	6	4462.0	20	6	2.0	1	17	211748928.0
16	7	1348.0	21	0	936.0	1	18	79874922.0
16	8	284.0	21	1	552.0	1	19	24347790.0
16	9	36.0	21	2	218.0	1	20	5885480.0
16	10	2.0	21	3	74.0	1	21	1104988.0
17	0	53400.0	21	4	16.0	1	22	156948.0
17	1	32828.0	21	5	2.0	1	23	16240.0
17	2	22468.0	22	0	472.0	1	24	1152.0
17	3	13682.0	22	1	128.0	1	25	50.0
17	4	7094.0	22	2	56.0			

1	26	1.0	3	11	918105792.0	5	0	389503066.0
2	0	397770544.0	3	12	718721424.0	5	1	296991104.0
2	1	795541088.0	3	13	503150564.0	5	2	290229358.0
2	2	1113486008.0	3	14	307167418.0	5	3	305930732.0
2	3	1357542612.0	3	15	159181382.0	5	4	329239116.0
2	4	1590449492.0	3	16	68222754.0	5	5	350043172.0
2	5	1819531472.0	3	17	23613614.0	5	6	360265114.0
2	6	2038120248.0	3	18	6456518.0	5	7	355266032.0
2	7	2224079128.0	3	19	1363162.0	5	8	332259720.0
2	8	2348457844.0	3	20	216244.0	5	9	291098714.0
2	9	2379851740.0	3	21	24812.0	5	10	235351220.0
2	10	2291496656.0	3	22	1938.0	5	11	172385682.0
2	11	2071180160.0	3	23	92.0	5	12	111863126.0
2	12	1731308840.0	3	24	2.0	5	13	62669532.0
2	13	1313976708.0	4	0	541306874.0	5	14	29483788.0
2	14	885410456.0	4	1	435527250.0	5	15	11330174.0
2	15	516481116.0	4	2	456911098.0	5	16	3461916.0
2	16	254163208.0	4	3	498399436.0	5	17	818436.0
2	17	103016500.0	4	4	551628844.0	5	18	145168.0
2	18	33659524.0	4	5	603715486.0	5	19	18554.0
2	19	8688776.0	4	6	643278924.0	5	20	1606.0
2	20	1734436.0	4	7	661029642.0	5	21	84.0
2	21	260736.0	4	8	649198344.0	5	22	2.0
2	22	28428.0	4	9	602794910.0	6	0	251357216.0
2	23	2116.0	4	10	522247088.0	6	1	185311028.0
2	24	96.0	4	11	415415422.0	6	2	177114254.0
2	25	2.0	4	12	297421260.0	6	3	181527350.0
3	0	623885020.0	4	13	187171468.0	6	4	190245214.0
3	1	572307378.0	4	14	100829372.0	6	5	195451984.0
3	2	665457830.0	4	15	45255516.0	6	6	193098390.0
3	3	773246226.0	4	16	16492132.0	6	7	181520982.0
3	4	882083110.0	4	17	4761802.0	6	8	160524930.0
3	5	991240082.0	4	18	1062526.0	6	9	131711684.0
3	6	1088416926.0	4	19	177998.0	6	10	98581426.0
3	7	1159442968.0	4	20	21528.0	6	11	65906162.0
3	8	1188874222.0	4	21	1768.0	6	12	38376398.0
3	9	1162440070.0	4	22	88.0	6	13	18921140.0
3	10	1071483620.0	4	23	2.0	6		

6	14	7670418.0	8	9	22170164.0	10	8	4823516.0
6	15	2482908.0	8	10	13884986.0	10	9	2821204.0
6	16	622994.0	8	11	7487724.0	10	10	1400574.0
6	17	117256.0	8	12	3369898.0	10	11	570128.0
6	18	15876.0	8	13	1224866.0	10	12	183258.0
6	19	1452.0	8	14	347446.0	10	13	44588.0
6	20	80.0	8	15	74086.0	10	14	7804.0
6	21	2.0	8	16	11344.0	10	15	916.0
7	0	151888488.0	8	17	1168.0	10	16	64.0
7	1	109838376.0	8	18	72.0	10	17	2.0
7	2	102784914.0	8	19	2.0	11	0	13012640.0
7	3	103568402.0	9	0	47148868.0	11	1	9085926.0
7	4	105399340.0	9	1	33441894.0	11	2	8220962.0
7	5	104187904.0	9	2	30975874.0	11	3	7494616.0
7	6	98370138.0	9	3	29983022.0	11	4	6549152.0
7	7	87751198.0	9	4	28459684.0	11	5	5377110.0
7	8	73026010.0	9	5	25795440.0	11	6	4080794.0
7	9	55809472.0	9	6	22040432.0	11	7	2805108.0
7	10	38400306.0	9	7	17506578.0	11	8	1702544.0
7	11	23211052.0	9	8	12698408.0	11	9	884924.0
7	12	11979256.0	9	9	8222362.0	11	10	380426.0
7	13	5119926.0	9	10	4623160.0	11	11	130130.0
7	14	1756354.0	9	11	2187406.0	11	12	33886.0
7	15	468338.0	9	12	841858.0	11	13	6366.0
7	16	93730.0	9	13	254186.0	11	14	802.0
7	17	13478.0	9	14	57852.0	11	15	60.0
7	18	1306.0	9	15	9458.0	11	16	2.0
7	19	76.0	9	16	1038.0	12	0	6593456.0
7	20	2.0	9	17	68.0	12	1	4566316.0
8	0	85962432.0	9	18	2.0	12	2	4051630.0
8	1	61515176.0	10	0	24896978.0	12	3	3556188.0
8	2	57480082.0	10	1	17578604.0	12	4	2961590.0
8	3	56790252.0	10	2	16212180.0	12	5	2292616.0
8	4	55940536.0	10	3	15252272.0	12	6	1618278.0
8	5	53011306.0	10	4	13915402.0	12	7	1016754.0
8	6	47678350.0	10	5	12032676.0	12	8	551994.0
8	7	40218264.0	10	6	9724212.0	12	9	250142.0
8	8	31353962.0	10	7	7221728.0			

12	10	90974.0	15	3	298082.0	18	5	3156.0
12	11	25370.0	15	4	204806.0	18	6	1004.0
12	12	5128.0	15	5	124792.0	18	7	228.0
12	13	696.0	15	6	65330.0	18	8	32.0
12	14	56.0	15	7	28274.0	18	9	2.0
12	15	2.0	15	8	9658.0	19	0	26886.0
13	0	3306604.0	15	9	2454.0	19	1	15020.0
13	1	2248054.0	15	10	426.0	19	2	9146.0
13	2	1932622.0	15	11	44.0	19	3	4818.0
13	3	1625660.0	15	12	2.0	19	4	2102.0
13	4	1281320.0	16	0	343296.0	19	5	718.0
13	5	926756.0	16	1	220790.0	19	6	178.0
13	6	601298.0	16	2	167714.0	19	7	28.0
13	7	340122.0	16	3	118132.0	19	8	2.0
13	8	162122.0	16	4	74410.0	20	0	9740.0
13	9	62602.0	16	5	40666.0	20	1	5470.0
13	10	18696.0	16	6	18566.0	20	2	2990.0
13	11	4074.0	16	7	6766.0	20	3	1378.0
13	12	598.0	16	8	1856.0	20	4	504.0
13	13	52.0	16	9	352.0	20	5	136.0
13	14	2.0	16	10	40.0	20	6	24.0
14	0	1593346.0	16	11	2.0	20	7	2.0
14	1	1070310.0	17	0	154072.0	21	0	4008.0
14	2	891466.0	17	1	94850.0	21	1	1804.0
14	3	712800.0	17	2	67680.0	21	2	896.0
14	4	527192.0	17	3	43942.0	21	3	346.0
14	5	352394.0	17	4	25010.0	21	4	102.0
14	6	207150.0	17	5	12010.0	21	5	20.0
14	7	103612.0	17	6	4660.0	21	6	2.0
14	8	42402.0	17	7	1378.0	22	0	1024.0
14	9	13552.0	17	8	286.0	22	1	600.0
14	10	3188.0	17	9	36.0	22	2	228.0
14	11	508.0	17	10	2.0	22	3	76.0
14	12	48.0	18	0	64012.0	22	4	16.0
14	13	2.0	18	1	38674.0	22	5	2.0
15	0	759266.0	18	2	25728.0	23	0	516.0
15	1	496158.0	18	3	15208.0	23	1	134.0
15	2	395224.0	18	4	7658.0			

23	2	58.0	1	26	52.0	3	9	3005748030.0
23	3	12.0	1	27	1.0	3	10	2826243626.0
23	4	2.0	2	0	1025424060.0	3	11	2491710008.0
24	0	50.0	2	1	2050848120.0	3	12	2029878260.0
24	1	48.0	2	2	2795153808.0	3	13	1500910624.0
24	2	8.0	2	3	3427397460.0	3	14	985888620.0
24	3	2.0	2	4	4003116152.0	3	15	561569814.0
25	0	48.0	2	5	4574255556.0	3	16	270607778.0
25	1	4.0	2	6	5123705416.0	3	17	107769558.0
25	2	2.0	2	7	5604566736.0	3	18	34721034.0
26	1	2.0	2	8	5951016048.0	3	19	8866706.0
27	0	2.0	2	9	6089638180.0	3	20	1755962.0
N=28			2	10	5953483412.0	3	21	262504.0
1	1	2539588452.0	2	11	5502807728.0	3	22	28516.0
1	2	3551320118.0	2	12	4748120360.0	3	23	2118.0
1	3	4323994856.0	2	13	3765822036.0	3	24	96.0
1	4	5049810294.0	2	14	2694136212.0	3	25	2.0
1	5	5760552678.0	2	15	1700700848.0	4	0	1398401284.0
1	6	6451267676.0	2	16	925021248.0	4	1	1110384604.0
1	7	7069442726.0	2	17	423497856.0	4	2	1152996236.0
1	8	7540622160.0	2	18	159749844.0	4	3	1259008560.0
1	9	7779195876.0	2	19	48695580.0	4	4	1389870172.0
1	10	7702953474.0	2	20	11770960.0	4	5	1522454754.0
1	11	7254704494.0	2	21	2209976.0	4	6	1628749810.0
1	12	6428013520.0	2	22	313896.0	4	7	1686619026.0
1	13	5288165160.0	2	23	32480.0	4	8	1677088938.0
1	14	3975451112.0	2	24	2304.0	4	9	1586333364.0
1	15	2679799874.0	2	25	100.0	4	10	1411296726.0
1	16	1585634380.0	2	26	2.0	4	11	1164860744.0
1	17	805579806.0	3	0	1591082176.0	4	12	877237774.0
1	18	344091252.0	3	1	1411979444.0	4	13	590771616.0
1	19	121215914.0	3	2	1690753560.0	4	14	347623516.0
1	20	34597810.0	3	3	1947555016.0	4	15	174340884.0
1	21	7859376.0	3	4	2220552928.0	4	16	72710756.0
1	22	1392390.0	3	5	2493006326.0	4	17	24636152.0
1	23	187404.0	3	6	2741752074.0	4	18	6630610.0
1	24	18450.0	3	7	2933815666.0	4	19	1384462.0
1	25	1250.0	3	8	3033393098.0	4		



4	20	218006.0	6	9	364405558.0	8	2	147414586.0
4	21	24900.0	6	10	284529076.0	8	3	145870518.0
4	22	1940.0	6	11	201381074.0	8	4	144625158.0
4	23	92.0	6	12	126478994.0	8	5	138830056.0
4	24	2.0	6	13	68776026.0	8	6	127170506.0
5	0	1002599340.0	6	14	31531084.0	8	7	110022078.0
5	1	745117324.0	6	15	11863190.0	8	8	88792436.0
5	2	738219492.0	6	16	3565952.0	8	9	65815242.0
5	3	773460444.0	6	17	833014.0	8	10	43937460.0
5	4	832046228.0	6	18	146544.0	8	11	25795142.0
5	5	887144198.0	6	19	18632.0	8	12	12959312.0
5	6	919459878.0	6	20	1608.0	8	13	5410558.0
5	7	917112178.0	6	21	84.0	8	14	1821050.0
5	8	872503156.0	6	22	2.0	8	15	478646.0
5	9	783338240.0	7	0	395693352.0	8	16	94830.0
5	10	655237282.0	7	1	278948006.0	8	17	13548.0
5	11	502759716.0	7	2	263038578.0	8	18	1308.0
5	12	347260654.0	7	3	264088560.0	8	19	76.0
5	13	211172446.0	7	4	269750950.0	8	20	2.0
5	14	110297736.0	7	5	269140368.0	9	0	123467072.0
5	15	48228476.0	7	6	257775386.0	9	1	86060864.0
5	16	17214250.0	7	7	234674414.0	9	2	80041442.0
5	17	4893304.0	7	8	200862918.0	9	3	77658608.0
5	18	1079768.0	7	9	159502814.0	9	4	74497214.0
5	19	179528.0	7	10	115591256.0	9	5	68636978.0
5	20	21610.0	7	11	74904238.0	9	6	59991770.0
5	21	1770.0	7	12	42357952.0	9	7	49163520.0
5	22	88.0	7	13	20343520.0	9	8	37221922.0
5	23	2.0	7	14	8066038.0	9	9	25553256.0
6	0	657114896.0	7	15	2565374.0	9	10	15543586.0
6	1	472508344.0	7	16	635306.0	9	11	8153856.0
6	2	450116564.0	7	17	118490.0	9	12	3580402.0
6	3	460928222.0	7	18	15950.0	9	13	1274978.0
6	4	483160596.0	7	19	1454.0	9	14	355990.0
6	5	499362140.0	7	20	80.0	9	15	75060.0
6	6	498553302.0	7	21	2.0	9	16	11410.0
6	7	476082452.0	8	0	226851552.0	9	17	1170.0
6	8	430549762.0	8	1	158309360.0			

9	18	72.0	11	17	2.0	14	4	1531072.0
9	19	2.0	12	0	17428428.0	14	5	1076840.0
10	0	65725364.0	12	1	12049392.0	14	6	678906.0
10	1	45767854.0	12	2	10730312.0	14	7	373282.0
10	2	42105168.0	12	3	9564996.0	14	8	173264.0
10	3	39939832.0	12	4	8150576.0	14	9	65366.0
10	4	36943516.0	12	5	6515856.0	14	10	19160.0
10	5	32602704.0	12	6	4808676.0	14	11	4120.0
10	6	27102744.0	12	7	3211566.0	14	12	600.0
10	7	20927516.0	12	8	1893934.0	14	13	52.0
10	8	14745652.0	12	9	957790.0	14	14	2.0
10	9	9273424.0	12	10	401774.0	15	0	2033956.0
10	10	5069260.0	12	11	134662.0	15	1	1349948.0
10	11	2337570.0	12	12	34530.0	15	2	1100158.0
10	12	880140.0	12	13	6420.0	15	3	857408.0
10	13	261190.0	12	14	804.0	15	4	616988.0
10	14	58708.0	12	15	60.0	15	5	400850.0
10	15	9520.0	12	16	2.0	15	6	229000.0
10	16	1040.0	13	0	8691592.0	15	7	111454.0
10	17	68.0	13	1	5959774.0	15	8	44506.0
10	18	2.0	13	2	5191188.0	15	9	13938.0
11	0	33958720.0	13	3	4450986.0	15	10	3230.0
11	1	23685262.0	13	4	3612062.0	15	11	510.0
11	2	21570270.0	13	5	2720736.0	15	12	48.0
11	3	19863276.0	13	6	1866608.0	15	13	2.0
11	4	17673008.0	13	7	1139458.0	16	0	953134.0
11	5	14886360.0	13	8	601542.0	16	1	614506.0
11	6	11704774.0	13	9	265698.0	16	2	478398.0
11	7	8448298.0	13	10	94542.0	16	3	351304.0
11	8	5481140.0	13	11	25920.0	16	4	234696.0
11	9	3115540.0	13	12	5178.0	16	5	138974.0
11	10	1506020.0	13	13	698.0	16	6	70754.0
11	11	598942.0	13	14	56.0	16	7	29846.0
11	12	188930.0	13	15	2.0	16	8	9974.0
11	13	45334.0	14	0	4288806.0	16	9	2492.0
11	14	7862.0	14	1	2883822.0	16	10	428.0
11	15	918.0	14	2	2430956.0	16	11	44.0
11	16	64.0	14	3	1995010.0			

16	12	2.0	20	4	2218.0	27	1	2.0
17	0	423696.0	20	5	740.0	28	0	2.0
17	1	268564.0	20	6	180.0	N=29		
17	2	198986.0	20	7	28.0	1	1	6554449440.0
17	3	136364.0	20	8	2.0	1	2	8946508236.0
17	4	83482.0	21	0	11128.0	1	3	10952982526.0
17	5	44354.0	21	1	6154.0	1	4	12757195054.0
17	6	19718.0	21	2	3262.0	1	5	14536313672.0
17	7	7020.0	21	3	1464.0	1	6	16271786776.0
17	8	1890.0	21	4	522.0	1	7	17854913094.0
17	9	354.0	21	5	138.0	1	8	19115748904.0
17	10	40.0	21	6	24.0	1	9	19855002662.0
17	11	2.0	21	7	2.0	1	10	19873225200.0
18	0	186880.0	22	0	4536.0	1	11	19015910354.0
18	1	113152.0	22	1	1976.0	1	12	17230178770.0
18	2	78684.0	22	2	960.0	1	13	14616996656.0
18	3	49666.0	22	3	360.0	1	14	11452960660.0
18	4	27476.0	22	4	104.0	1	15	8155238790.0
18	5	12838.0	22	5	20.0	1	16	5179632666.0
18	6	4860.0	22	6	2.0	1	17	2875497016.0
18	7	1408.0	23	0	1116.0	1	18	1367342968.0
18	8	288.0	23	1	650.0	1	19	546436384.0
18	9	36.0	23	2	238.0	1	20	180362354.0
18	10	2.0	23	3	78.0	1	21	48366038.0
19	0	76204.0	23	4	16.0	1	22	10358612.0
19	1	45260.0	23	5	2.0	1	23	1736832.0
19	2	29294.0	24	0	562.0	1	24	222096.0
19	3	16830.0	24	1	140.0	1	25	20852.0
19	4	8242.0	24	2	60.0	1	26	1352.0
19	5	3310.0	24	3	12.0	1	27	54.0
19	6	1030.0	24	4	2.0	1	28	1.0
19	7	230.0	25	0	52.0	2	0	2539588452.0
19	8	32.0	25	1	50.0	2	1	5079176904.0
19	9	2.0	25	2	8.0	2	2	7102640236.0
20	0	31482.0	25	3	2.0	2	3	8647989712.0
20	1	17208.0	26	0	50.0	2	4	10099620588.0
20	2	10198.0	26	1	4.0	2	5	11521105356.0
20	3	5222.0	26	2	2.0			

2	6	12902535352.0	3	16	997482666.0	5	1	1912859782.0
2	7	14138885452.0	3	17	448070622.0	5	2	1869234478.0
2	8	15081244320.0	3	18	166369802.0	5	3	1961040238.0
2	9	15558391752.0	3	19	50078894.0	5	4	2105337822.0
2	10	15405906948.0	3	20	11988894.0	5	5	2249702578.0
2	11	14509408988.0	3	21	2234874.0	5	6	2345160464.0
2	12	12856027040.0	3	22	315836.0	5	7	2361745000.0
2	13	10576330320.0	3	23	32572.0	5	8	2279503326.0
2	14	7950902224.0	3	24	2306.0	5	9	2089163480.0
2	15	5359599748.0	3	25	100.0	5	10	1798145776.0
2	16	3171268760.0	3	26	2.0	5	11	1434267586.0
2	17	1611159612.0	4	0	3454807682.0	5	12	1043403396.0
2	18	688182504.0	4	1	2794240548.0	5	13	679275938.0
2	19	242431828.0	4	2	2928562766.0	5	14	387241182.0
2	20	69195620.0	4	3	3182175992.0	5	15	188847236.0
2	21	15718752.0	4	4	3508939570.0	5	16	76943300.0
2	22	2784780.0	4	5	3844280980.0	5	17	25594478.0
2	23	374808.0	4	6	4125975920.0	5	18	6793988.0
2	24	36900.0	4	7	4299983112.0	5	19	1404612.0
2	25	2500.0	4	8	4320408584.0	5	20	219696.0
2	26	104.0	4	9	4150808274.0	5	21	24986.0
2	27	2.0	4	10	3775975000.0	5	22	1942.0
3	0	3974574832.0	4	11	3214415934.0	5	23	92.0
3	1	3654731822.0	4	12	2524608832.0	5	24	2.0
3	2	4252634028.0	4	13	1798465958.0	6	0	1624461110.0
3	3	4925979450.0	4	14	1139013676.0	6	1	1203157134.0
3	4	5598594264.0	4	15	627186516.0	6	2	1147781874.0
3	5	6281421274.0	4	16	293424356.0	6	3	1171107890.0
3	6	6915494150.0	4	17	114052956.0	6	4	1228156548.0
3	7	7426832376.0	4	18	36058116.0	6	5	1275146452.0
3	8	7732116342.0	4	19	9080362.0	6	6	1284419358.0
3	9	7747698750.0	4	20	1780622.0	6	7	1242970294.0
3	10	7407677630.0	4	21	264438.0	6	8	1145617380.0
3	11	6688566702.0	4	22	28608.0	6	9	995359782.0
3	12	5632573692.0	4	23	2120.0	6	10	805254610.0
3	13	4357494520.0	4	24	96.0	6	11	597643932.0
3	14	3040984832.0	4	25	2.0	6	12	399673994.0
3	15	1874415404.0	5	0	2496578138.0	6		

6	13	235789498.0	8	4	373367674.0	9	20	2.0
6	14	119847318.0	8	5	362298826.0	10	0	167871808.0
6	15	51198884.0	8	6	337124588.0	10	1	118756706.0
6	16	17933026.0	8	7	298026186.0	10	2	109489394.0
6	17	5024172.0	8	8	247655062.0	10	3	104291704.0
6	18	1096954.0	8	9	190938008.0	10	4	97647296.0
6	19	181056.0	8	10	134378018.0	10	5	87684900.0
6	20	21692.0	8	11	84618348.0	10	6	74658034.0
6	21	1772.0	8	12	46566626.0	10	7	59558940.0
6	22	88.0	8	13	21819908.0	10	8	43864516.0
6	23	2.0	8	14	8470794.0	10	9	29280784.0
7	0	990815574.0	8	15	2648866.0	10	10	17324068.0
7	1	719214098.0	8	16	647686.0	10	11	8852644.0
7	2	671483350.0	8	17	119726.0	10	12	3797166.0
7	3	674317956.0	8	18	16024.0	10	13	1325888.0
7	4	690152762.0	8	19	1456.0	10	14	364594.0
7	5	693917392.0	8	20	80.0	10	15	76036.0
7	6	672783516.0	8	21	2.0	10	16	11476.0
7	7	623192568.0	9	0	314459658.0	10	17	1172.0
7	8	546283674.0	9	1	223542398.0	10	18	72.0
7	9	448027118.0	9	2	206487848.0	10	19	2.0
7	10	339039786.0	9	3	200954726.0	11	0	88458412.0
7	11	232729488.0	9	4	194433676.0	11	1	62005460.0
7	12	141953474.0	9	5	181665682.0	11	2	56439378.0
7	13	75132156.0	9	6	161900670.0	11	3	52456156.0
7	14	33633872.0	9	7	136232726.0	11	4	47386996.0
7	15	12405190.0	9	8	106903584.0	11	5	40788928.0
7	16	3670978.0	9	9	77025978.0	11	6	33039452.0
7	17	847658.0	9	10	49986136.0	11	7	24832446.0
7	18	147922.0	9	11	28550322.0	11	8	17018482.0
7	19	18710.0	9	12	13982328.0	11	9	10409204.0
7	20	1610.0	9	13	5708870.0	11	10	5539696.0
7	21	84.0	9	14	1886658.0	11	11	2492764.0
7	22	2.0	9	15	489018.0	11	12	919114.0
8	0	567521890.0	9	16	95932.0	11	13	268250.0
8	1	407202668.0	9	17	13618.0	11	14	59566.0
8	2	378967622.0	9	18	1310.0	11	15	9582.0
8	3	374442150.0	9	19	76.0			

11	16	1042.0	14	0	11349960.0	16	7	119578.0
11	17	68.0	14	1	7705678.0	16	8	46646.0
11	18	2.0	14	2	6589854.0	16	9	14326.0
12	0	45397774.0	14	3	5522532.0	16	10	3272.0
12	1	31604660.0	14	4	4370774.0	16	11	512.0
12	2	28371532.0	14	5	3206544.0	16	12	48.0
12	3	25581550.0	14	6	2140632.0	16	13	2.0
12	4	22228200.0	14	7	1271242.0	17	0	1187214.0
12	5	18258484.0	14	8	653470.0	17	1	755140.0
12	6	13982596.0	14	9	281676.0	17	2	574794.0
12	7	9820048.0	14	10	98154.0	17	3	411322.0
12	8	6196614.0	14	11	26472.0	17	4	267476.0
12	9	3427706.0	14	12	5228.0	17	5	154110.0
12	10	1615450.0	14	13	700.0	17	6	76402.0
12	11	628350.0	14	14	56.0	17	7	31450.0
12	12	194654.0	14	15	2.0	17	8	10292.0
12	13	46082.0	15	0	5514674.0	17	9	2530.0
12	14	7920.0	15	1	3667008.0	17	10	430.0
12	15	920.0	15	2	3031348.0	17	11	44.0
12	16	64.0	15	3	2428738.0	17	12	2.0
12	17	2.0	15	4	1816516.0	18	0	519086.0
13	0	23064182.0	15	5	1243656.0	18	1	324278.0
13	1	15824020.0	15	6	762822.0	18	2	234504.0
13	2	13865260.0	15	7	408232.0	18	3	156504.0
13	3	12091174.0	15	8	184754.0	18	4	93230.0
13	4	10056060.0	15	9	68170.0	18	5	48216.0
13	5	7834900.0	15	10	19626.0	18	6	20898.0
13	6	5628672.0	15	11	4166.0	18	7	7276.0
13	7	3656884.0	15	12	602.0	18	8	1924.0
13	8	2098162.0	15	13	52.0	18	9	356.0
13	9	1033762.0	15	14	2.0	18	10	40.0
13	10	423626.0	16	0	2575036.0	18	11	2.0
13	11	139242.0	16	1	1688440.0	19	0	225130.0
13	12	35176.0	16	2	1346816.0	19	1	134076.0
13	13	6474.0	16	3	1023852.0	19	2	90928.0
13	14	806.0	16	4	717522.0	19	3	55860.0
13	15	60.0	16	5	453612.0	19	4	30074.0
13	16	2.0	16	6	252170.0			

19	5	13690.0	23	5	20.0	1	16	16272116252.0
19	6	5062.0	23	6	2.0	1	17	9741111954.0
19	7	1438.0	24	0	1212.0	1	18	5080381100.0
19	8	290.0	24	1	702.0	1	19	2266009662.0
19	9	36.0	24	2	248.0	1	20	849633380.0
19	10	2.0	24	3	80.0	1	21	263570570.0
20	0	90134.0	24	4	16.0	1	22	66610946.0
20	1	52644.0	24	5	2.0	1	23	13489868.0
20	2	33180.0	25	0	610.0	1	24	2146426.0
20	3	18550.0	25	1	146.0	1	25	261400.0
20	4	8846.0	25	2	62.0	1	26	23454.0
20	5	3466.0	25	3	12.0	1	27	1458.0
20	6	1056.0	25	4	2.0	1	28	56.0
20	7	232.0	26	0	54.0	1	29	1.0
20	8	32.0	26	1	52.0	2	0	6554449440.0
20	9	2.0	26	2	8.0	2	1	13108898880.0
21	0	36656.0	26	3	2.0	2	2	17893016472.0
21	1	19606.0	27	0	52.0	2	3	21905965052.0
21	2	11322.0	27	1	4.0	2	4	25514390108.0
21	3	5642.0	27	2	2.0	2	5	29072627344.0
21	4	2336.0	28	1	2.0	2	6	32543573552.0
21	5	762.0	29	0	2.0	2	7	35709826188.0
21	6	182.0	N=30			2	8	38231497808.0
21	7	28.0	1	1	16309117088.0	2	9	39710005324.0
21	8	2.0	1	2	22791122464.0	2	10	39746450400.0
22	0	12646.0	1	3	27724383640.0	2	11	38031820708.0
22	1	6892.0	1	4	32295036244.0	2	12	34460357540.0
22	2	3546.0	1	5	36740423948.0	2	13	29233993312.0
22	3	1552.0	1	6	41105543642.0	2	14	22905921320.0
22	4	540.0	1	7	45147748798.0	2	15	16310477580.0
22	5	140.0	1	8	48482488604.0	2	16	10359265332.0
22	6	24.0	1	9	50645556360.0	2	17	5750994032.0
22	7	2.0	1	10	51156934356.0	2	18	2734685936.0
23	0	5110.0	1	11	49614613468.0	2	19	1092872768.0
23	1	2156.0	1	12	45818255850.0	2	20	360724708.0
23	2	1026.0	1	13	39893920142.0	2	21	96732076.0
23	3	374.0	1	14	32368661272.0	2	22	20717224.0
23	4	106.0	1	15	24135374160.0			

2	23	3473664.0	4	4	8871665494.0	5	15	690931558.0
2	24	444192.0	4	5	9720148624.0	5	16	315159248.0
2	25	41704.0	4	6	10458611288.0	5	17	119968292.0
2	26	2704.0	4	7	10958023744.0	5	18	37311466.0
2	27	108.0	4	8	11107219166.0	5	19	9281136.0
2	28	2.0	4	9	10813012768.0	5	20	1803992.0
3	0	10158353808.0	4	10	10023753762.0	5	21	266296.0
3	1	9062793904.0	4	11	8758384676.0	5	22	28698.0
3	2	10834003854.0	4	12	7125864246.0	5	23	2122.0
3	3	12450586684.0	4	13	5320481064.0	5	24	96.0
3	4	14146547396.0	4	14	3583376822.0	5	25	2.0
3	5	15852584034.0	4	15	2134678960.0	6	0	4243762650.0
3	6	17465556820.0	4	16	1101283508.0	6	1	3071925622.0
3	7	18811901724.0	4	17	481687756.0	6	2	2924175302.0
3	8	19698227952.0	4	18	175015572.0	6	3	2981274518.0
3	9	19924575658.0	4	19	51803880.0	6	4	3123963024.0
3	10	19320894018.0	4	20	12248514.0	6	5	3255570954.0
3	11	17800232350.0	4	21	2263230.0	6	6	3303796456.0
3	12	15413688594.0	4	22	317950.0	6	7	3233702032.0
3	13	12383935200.0	4	23	32668.0	6	8	3029037650.0
3	14	9089758284.0	4	24	2308.0	6	9	2691077492.0
3	15	5985023408.0	4	25	100.0	6	10	2243532610.0
3	16	3463649172.0	4	26	2.0	6	11	1732972710.0
3	17	1724852166.0	5	0	6433617844.0	6	12	1221442556.0
3	18	724157834.0	5	1	4815400772.0	6	13	771442234.0
3	19	251499374.0	5	2	4766210010.0	6	14	427631514.0
3	20	70974954.0	5	3	4973665554.0	6	15	203433554.0
3	21	15983114.0	5	4	5335512276.0	6	16	81167580.0
3	22	2813386.0	5	5	5708971734.0	6	17	26548294.0
3	23	376928.0	5	6	5979725044.0	6	18	6956624.0
3	24	36996.0	5	7	6071151358.0	6	19	1424702.0
3	25	2502.0	5	8	5931929902.0	6	20	221384.0
3	26	104.0	5	9	5532573490.0	6	21	25072.0
3	27	2.0	5	10	4878453132.0	6	22	1944.0
4	0	8932641220.0	5	11	4020546776.0	6	23	92.0
4	1	7137621524.0	5	12	3054925514.0	6	24	2.0
4	2	7413471588.0	5	13	2105601556.0	7	0	2581106712.0
4	3	8065683164.0	5	14	1291865870.0			



7	1	1829852172.0	8	15	12958254.0	10	8	127697696.0
7	2	1721308018.0	8	16	3777162.0	10	9	89571404.0
7	3	1722253072.0	8	17	862374.0	10	10	56583172.0
7	4	1765798282.0	8	18	149302.0	10	11	31483912.0
7	5	1786635560.0	8	19	18788.0	10	12	15049244.0
7	6	1750397200.0	8	20	1612.0	10	13	6014930.0
7	7	1645646552.0	8	21	84.0	10	14	1953180.0
7	8	1472284056.0	8	22	2.0	10	15	499454.0
7	9	1241086846.0	9	0	824139520.0	10	16	97036.0
7	10	974103110.0	9	1	575447384.0	10	17	13688.0
7	11	701685678.0	9	2	533684836.0	10	18	1312.0
7	12	455868296.0	9	3	519526116.0	10	19	76.0
7	13	261691870.0	9	4	506265180.0	10	20	2.0
7	14	129744320.0	9	5	478778248.0	11	0	231415408.0
7	15	54241128.0	9	6	433894256.0	11	1	161472636.0
7	16	18662646.0	9	7	373457890.0	11	2	147621604.0
7	17	5156158.0	9	8	302077202.0	11	3	138100398.0
7	18	1114210.0	9	9	226643488.0	11	4	126396732.0
7	19	182586.0	9	10	155206282.0	11	5	110837382.0
7	20	21774.0	9	11	95132248.0	11	6	92072534.0
7	21	1774.0	9	12	51021290.0	11	7	71596072.0
7	22	88.0	9	13	23353136.0	11	8	51355758.0
7	23	2.0	9	14	8884938.0	11	9	33374578.0
8	0	1495495670.0	9	15	2733394.0	11	10	19231060.0
8	1	1047800318.0	9	16	660134.0	11	11	9584740.0
8	2	973248716.0	9	17	120964.0	11	12	4020244.0
8	3	961905076.0	9	18	16098.0	11	13	1377598.0
8	4	962692266.0	9	19	1458.0	11	14	373258.0
8	5	942875074.0	9	20	80.0	11	15	77014.0
8	6	889301640.0	9	21	2.0	11	16	11542.0
8	7	800875542.0	10	0	443153990.0	11	17	1174.0
8	8	682331058.0	10	1	308781298.0	11	18	72.0
8	9	543866982.0	10	2	284090148.0	11	19	2.0
8	10	400050020.0	10	3	271970736.0	12	0	119766256.0
8	11	267032802.0	10	4	257136384.0	12	1	83110072.0
8	12	158528972.0	10	5	234410842.0	12	2	74739282.0
8	13	81810094.0	10	6	203718000.0	12	3	68129340.0
8	14	35807256.0	10	7	167071774.0			

12	4	60178234.0	14	5	9353984.0	16	10	20094.0
12	5	50583062.0	14	6	6548112.0	16	11	4212.0
12	6	39964204.0	14	7	4143096.0	16	12	604.0
12	7	29267984.0	14	8	2315610.0	16	13	52.0
12	8	19531836.0	14	9	1112882.0	16	14	2.0
12	9	11633198.0	14	10	445984.0	17	0	3234900.0
12	10	6035014.0	14	11	143870.0	17	1	2095348.0
12	11	2653038.0	14	12	35824.0	17	2	1636492.0
12	12	958782.0	14	13	6528.0	17	3	1214374.0
12	13	275366.0	14	14	808.0	17	4	829576.0
12	14	60426.0	14	15	60.0	17	5	510876.0
12	15	9644.0	14	16	2.0	17	6	276690.0
12	16	1044.0	15	0	14697876.0	17	7	127986.0
12	17	68.0	15	1	9876876.0	17	8	48822.0
12	18	2.0	15	2	8293658.0	17	9	14716.0
13	0	60543588.0	15	3	6796976.0	17	10	3314.0
13	1	41773072.0	15	4	5250424.0	17	11	514.0
13	2	36931994.0	15	5	3755064.0	17	12	48.0
13	3	32633114.0	15	6	2441860.0	17	13	2.0
13	4	27713776.0	15	7	1412418.0	18	0	1468022.0
13	5	22218568.0	15	8	707816.0	18	1	921190.0
13	6	16587996.0	15	9	298078.0	18	2	685874.0
13	7	11347496.0	15	10	101810.0	18	3	478682.0
13	8	6972624.0	15	11	27026.0	18	4	303296.0
13	9	3758162.0	15	12	5278.0	18	5	170226.0
13	10	1728910.0	15	13	702.0	18	6	82276.0
13	11	658354.0	15	14	56.0	18	7	33086.0
13	12	200430.0	15	15	2.0	18	8	10612.0
13	13	46832.0	16	0	7033600.0	18	9	2568.0
13	14	7978.0	16	1	4624746.0	18	10	432.0
13	15	922.0	16	2	3749668.0	18	11	44.0
13	16	64.0	16	3	2934906.0	18	12	2.0
13	17	2.0	16	4	2141036.0	19	0	631576.0
14	0	30302266.0	16	5	1428302.0	19	1	388872.0
14	1	20594700.0	16	6	853296.0	19	2	274642.0
14	2	17750606.0	16	7	445006.0	19	3	178664.0
14	3	15151840.0	16	8	196594.0	19	4	103676.0
14	4	12308256.0	16	9	71014.0			

19	5	52254.0	23	1	7686.0	1	4	81842923022.00
19	6	22106.0	23	2	3842.0	1	5	93014277076.00
19	7	7534.0	23	3	1642.0	1	6	103991955218.00
19	8	1958.0	23	4	558.0	1	7	114292973530.00
19	9	358.0	23	5	142.0	1	8	123037788012.00
19	10	40.0	23	6	24.0	1	9	129145933050.00
19	11	2.0	23	7	2.0	1	10	131468235404.00
20	0	269482.0	24	0	5732.0	1	11	128983527522.00
20	1	157872.0	24	1	2344.0	1	12	121066977128.00
20	2	104494.0	24	2	1094.0	1	13	107780223314.00
20	3	62542.0	24	3	388.0	1	14	90083950618.00
20	4	32806.0	24	4	108.0	1	15	69844047304.00
20	5	14566.0	24	5	20.0	1	16	49530439092.00
20	6	5266.0	24	6	2.0	1	17	31615850722.00
20	7	1468.0	25	0	1312.0	1	18	17851316922.00
20	8	292.0	25	1	756.0	1	19	8759789528.00
20	9	36.0	25	2	258.0	1	20	3673094432.00
20	10	2.0	25	3	82.0	1	21	1295630400.00
21	0	105968.0	25	4	16.0	1	22	378842218.00
21	1	60886.0	25	5	2.0	1	23	90490238.00
21	2	37400.0	26	0	660.0	1	24	17375344.00
21	3	20370.0	26	1	152.0	1	25	2630020.00
21	4	9470.0	26	2	64.0	1	26	305708.00
21	5	3624.0	26	3	12.0	1	27	26264.00
21	6	1082.0	26	4	2.0	1	28	1568.00
21	7	234.0	27	0	56.0	1	29	58.00
21	8	32.0	27	1	54.0	1	30	1.00
21	9	2.0	27	2	8.0	2	0	16309117088.00
22	0	42456.0	27	3	2.0	2	1	32618234176.00
22	1	22224.0	28	0	54.0	2	2	45582244928.00
22	2	12520.0	28	1	4.0	2	3	55448767280.00
22	3	6078.0	28	2	2.0	2	4	64590072488.00
22	4	2456.0	29	1	2.0	2	5	73480847896.00
22	5	784.0	30	0	2.0	2	6	82211087284.00
22	6	184.0	N=31			2	7	90295497596.00
22	7	28.0	1	1	42136254368.00	2	8	96964977208.00
22	8	2.0	1	2	57592748454.00	2	9	101291112720.00
23	0	14300.0	1	3	70426174910.00			

2	10	102313868712.00	3	18	2909194810.00	4	27	2.00
2	11	99229226936.00	3	19	1144570390.00	5	0	16084845060.00
2	12	91636511700.00	3	20	372957970.00	5	1	12378003406.00
2	13	79787840284.00	3	21	98993870.00	5	2	12100615326.00
2	14	64737322544.00	3	22	21035094.00	5	3	12646962160.00
2	15	48270748320.00	3	23	3506330.00	5	4	13537176212.00
2	16	32544232504.00	3	24	446500.00	5	5	14499218872.00
2	17	19482223908.00	3	25	41804.00	5	6	15246395214.00
2	18	10160762200.00	3	26	2706.00	5	7	15586685232.00
2	19	4532019324.00	3	27	108.00	5	8	15389369290.00
2	20	1699266760.00	3	28	2.00	5	9	14569540574.00
2	21	527141140.00	4	0	22178061804.00	5	10	13114759454.00
2	22	133221892.00	4	1	18020829460.00	5	11	11113035936.00
2	23	26979736.00	4	2	18877231394.00	5	12	8760652344.00
2	24	4292852.00	4	3	20450880238.00	5	13	6335885450.00
2	25	522800.00	4	4	22470732798.00	5	14	4135749108.00
2	26	46908.00	4	5	24608106032.00	5	15	2391893842.00
2	27	2916.00	4	6	26530217460.00	5	16	1201464614.00
2	28	112.00	4	7	27921251194.00	5	17	513597996.00
2	29	2.00	4	8	28513051270.00	5	18	183145212.00
3	0	25475919384.00	4	9	28071786702.00	5	19	53421534.00
3	1	23477075618.00	4	10	26444266440.00	5	20	12492812.00
3	2	27339584976.00	4	11	23623968122.00	5	21	2290148.00
3	3	31590730042.00	4	12	19803680136.00	5	22	319984.00
3	4	35790017542.00	4	13	15383993278.00	5	23	32762.00
3	5	40073536924.00	4	14	10911755120.00	5	24	2310.00
3	6	44166820450.00	4	15	6946740142.00	5	25	100.00
3	7	47683391558.00	4	16	3894767468.00	5	26	2.00
3	8	50170912076.00	4	17	1885348444.00	6	0	10539053576.00
3	9	51153460382.00	4	18	772738508.00	6	1	7838948930.00
3	10	50202400862.00	4	19	263210268.00	6	2	7470912102.00
3	11	47050082150.00	4	20	73173380.00	6	3	7593705556.00
3	12	41716445102.00	4	21	16295754.00	6	4	7954394156.00
3	13	34603506038.00	4	22	2845790.00	6	5	8311758436.00
3	14	26498976692.00	4	23	379230.00	6	6	8488439100.00
3	15	18442396592.00	4	24	37096.00	6	7	8389595428.00
3	16	11457102576.00	4	25	2504.00	6	8	7968459138.00
3	17	6231026420.00	4	26	104.00	6		

6	9	7215892206.00	7	21	25158.00	9	10	468620016.00
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6	13	2430853748.00	8	0	3750248690.00	9	14	38054552.00
6	14	1449765986.00	8	1	2698316614.00	9	15	13522654.00
6	15	755609634.00	8	2	2504128142.00	9	16	3884514.00
6	16	336963198.00	8	3	2470484680.00	9	17	877162.00
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7	6	4542828632.00	8	19	184118.00	10	10	178269236.00
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17	12	606.00	20	8	1992.00	24	4	576.00
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18	8	51034.00	21	7	1498.00	26	0	1416.00
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19	12	2.00	23	4	2578.00			

30	1	2.00	31	0	2.00
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1	3	1	5	1	100	2	1	2112
2	0	4	6	0	284	2	2	2784
2	1	16	N=7			2	3	1856
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1	3	12	2	0	136	3	3	1020
1	4	1	2	1	544	3	4	192
2	0	12	2	2	688	3	5	12
2	1	48	2	3	336	4	0	1480
2	2	32	2	4	64	4	1	1944
2	3	4	2	5	4	4	2	1512
3	0	24	3	0	296	4	3	432
3	1	48	3	1	552	4	4	36
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1	4	5672	8	1	2172	5	2	20636
1	5	1784	9	0	5916	5	3	8700
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2	0	2032	1	3	46128	6	1	19920
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2	2	11248	1	5	12008	6	3	3408
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2	7	4	2	0	8344	7	3	780
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